

2009

Conditions

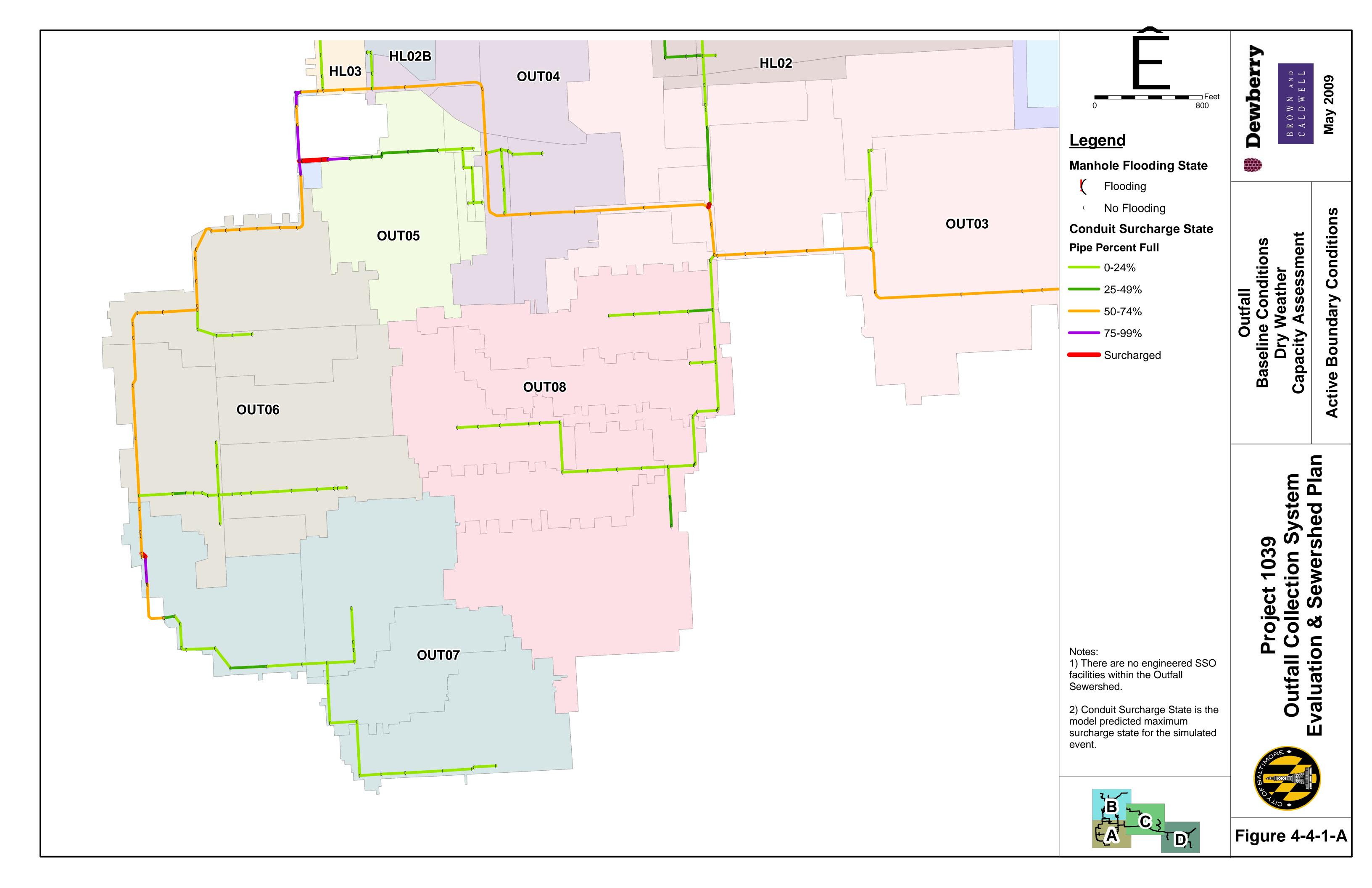
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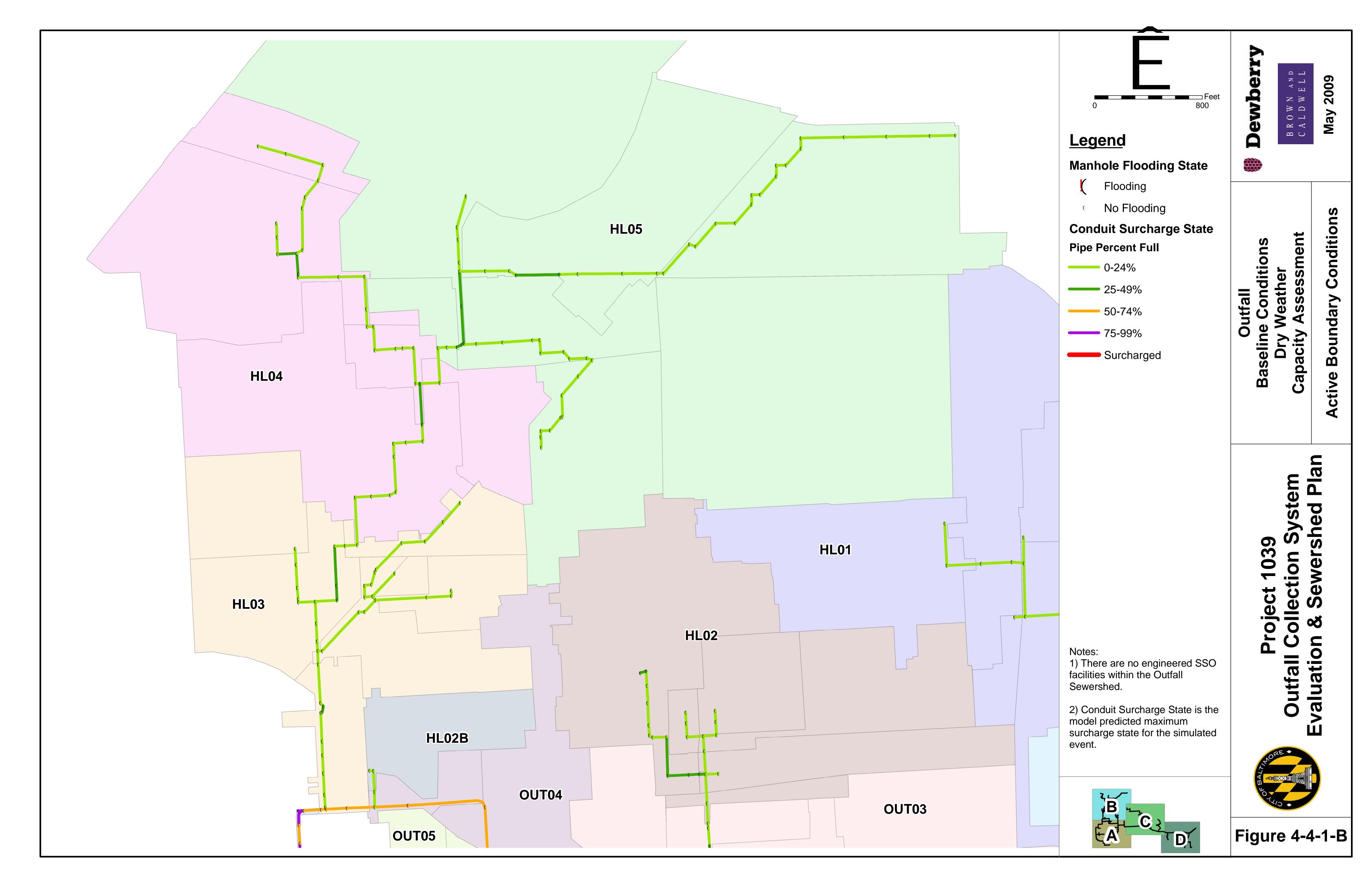
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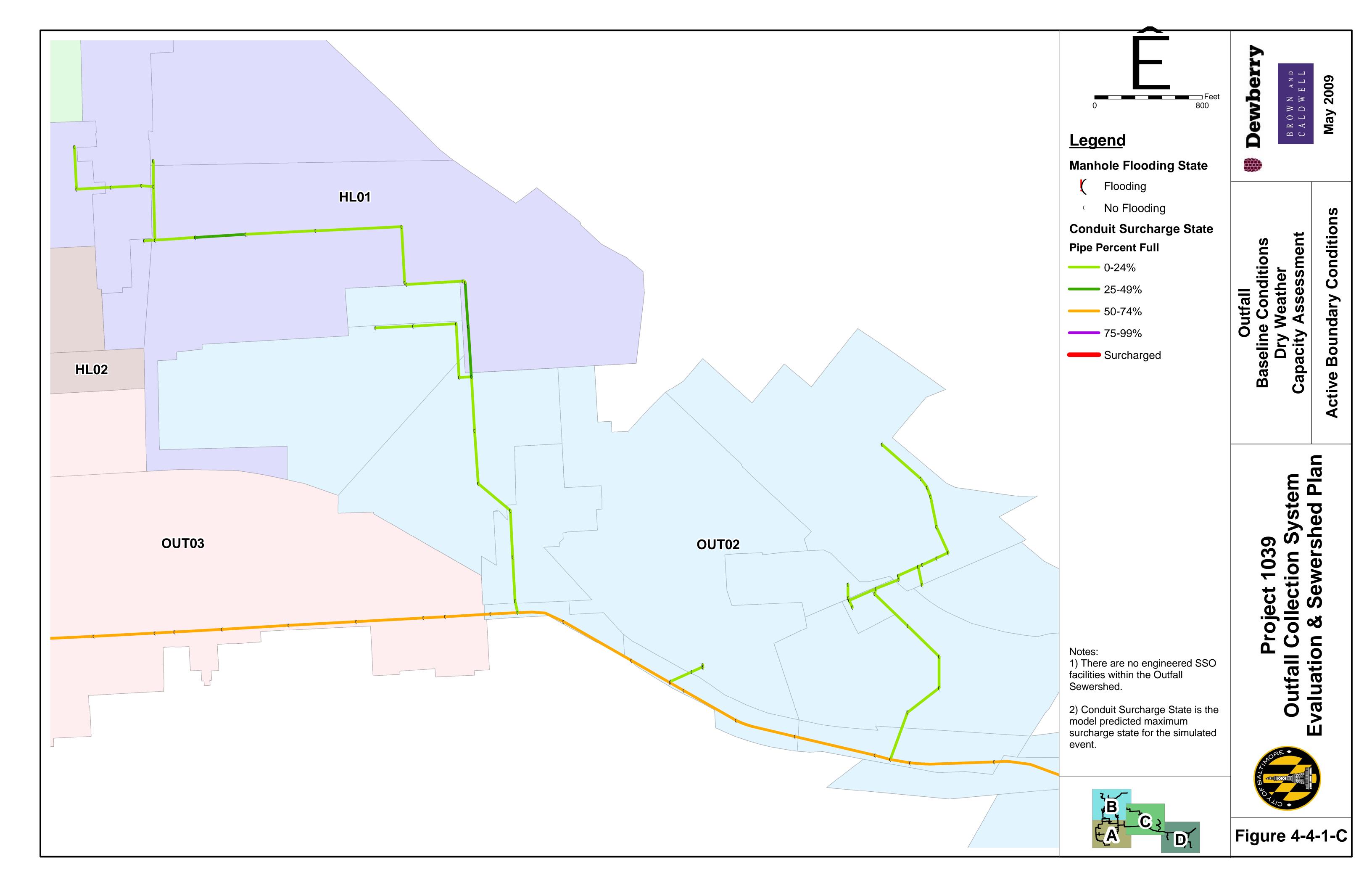


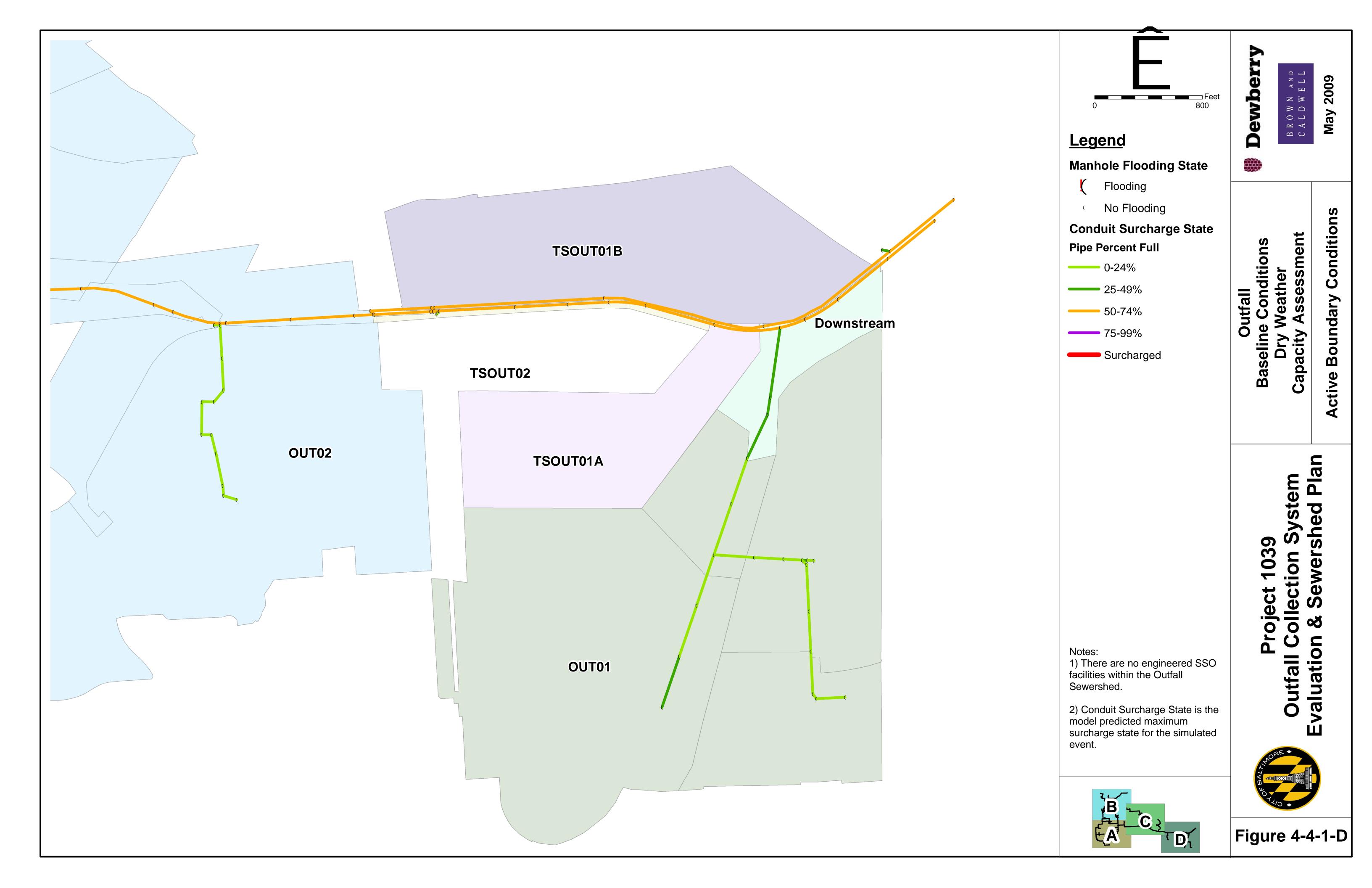
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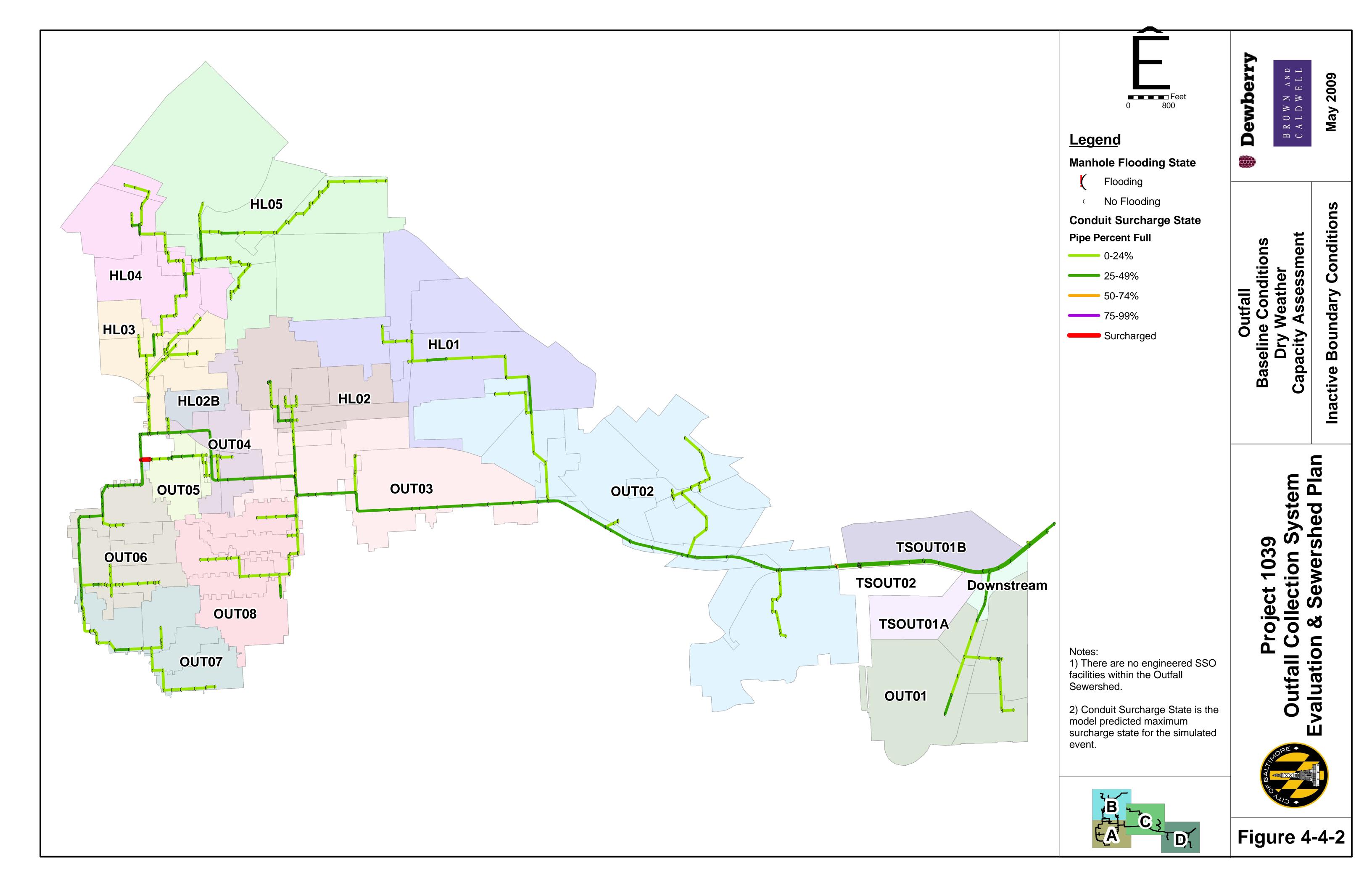
Figure 4-4-1

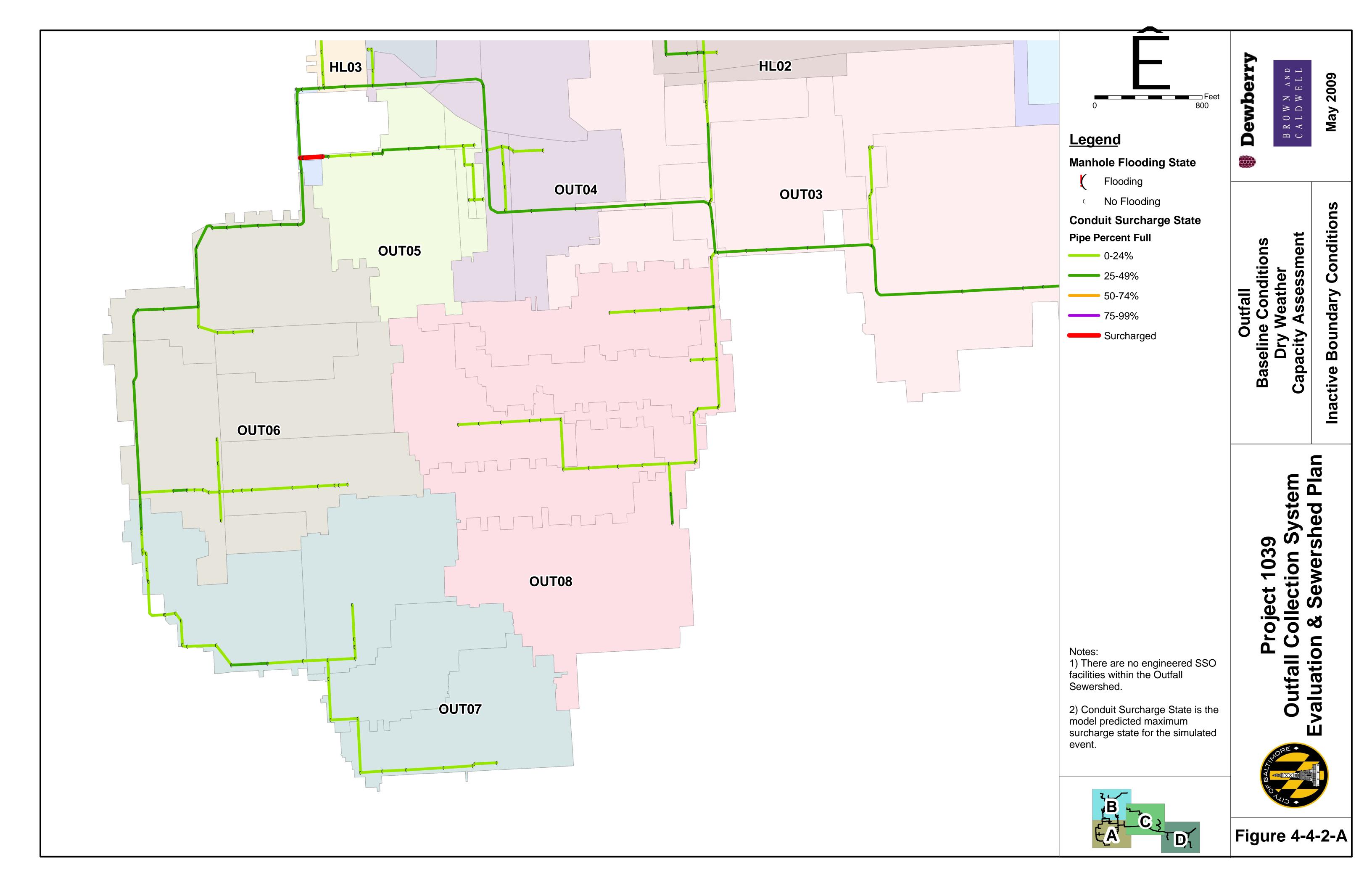


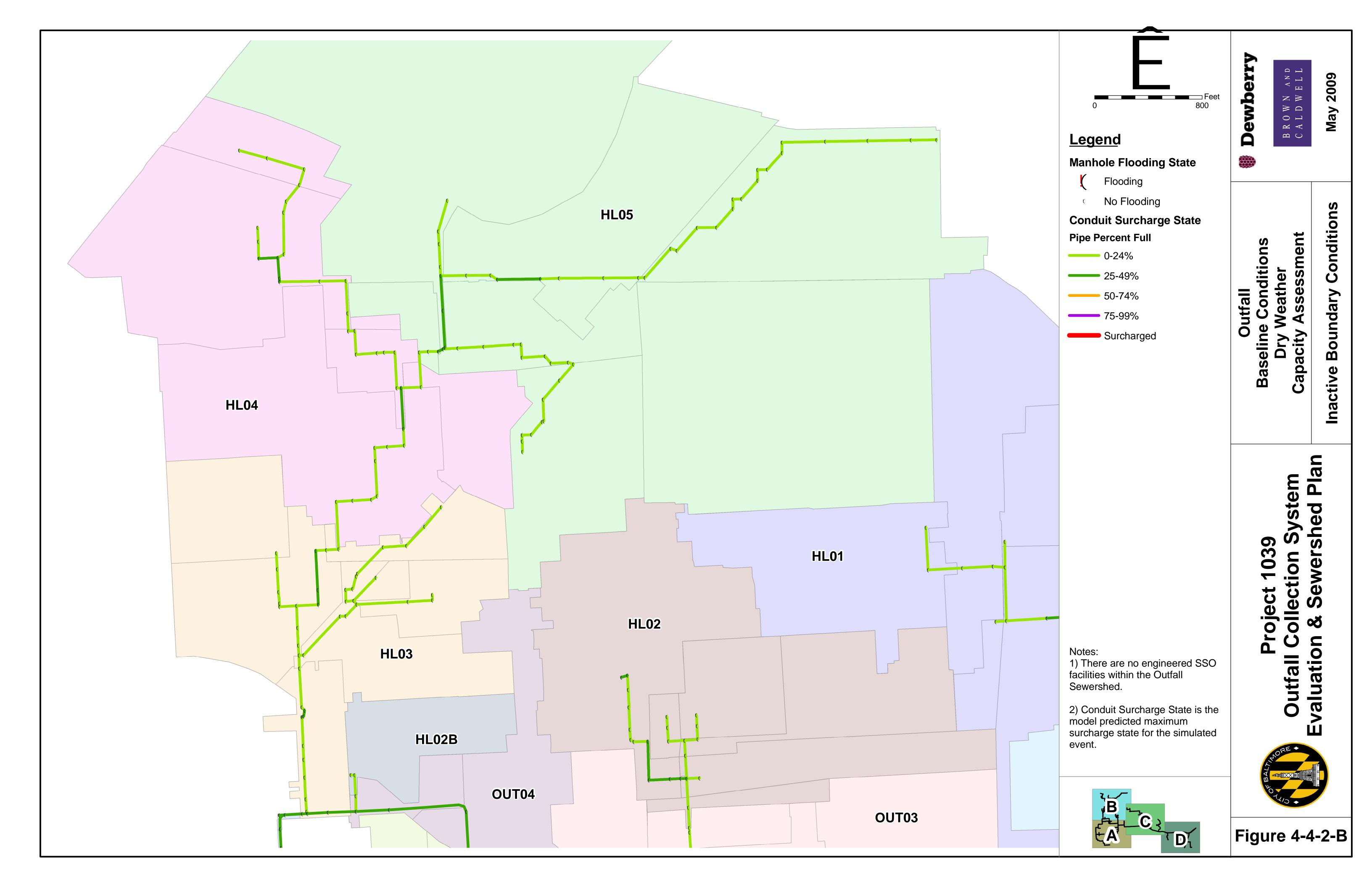


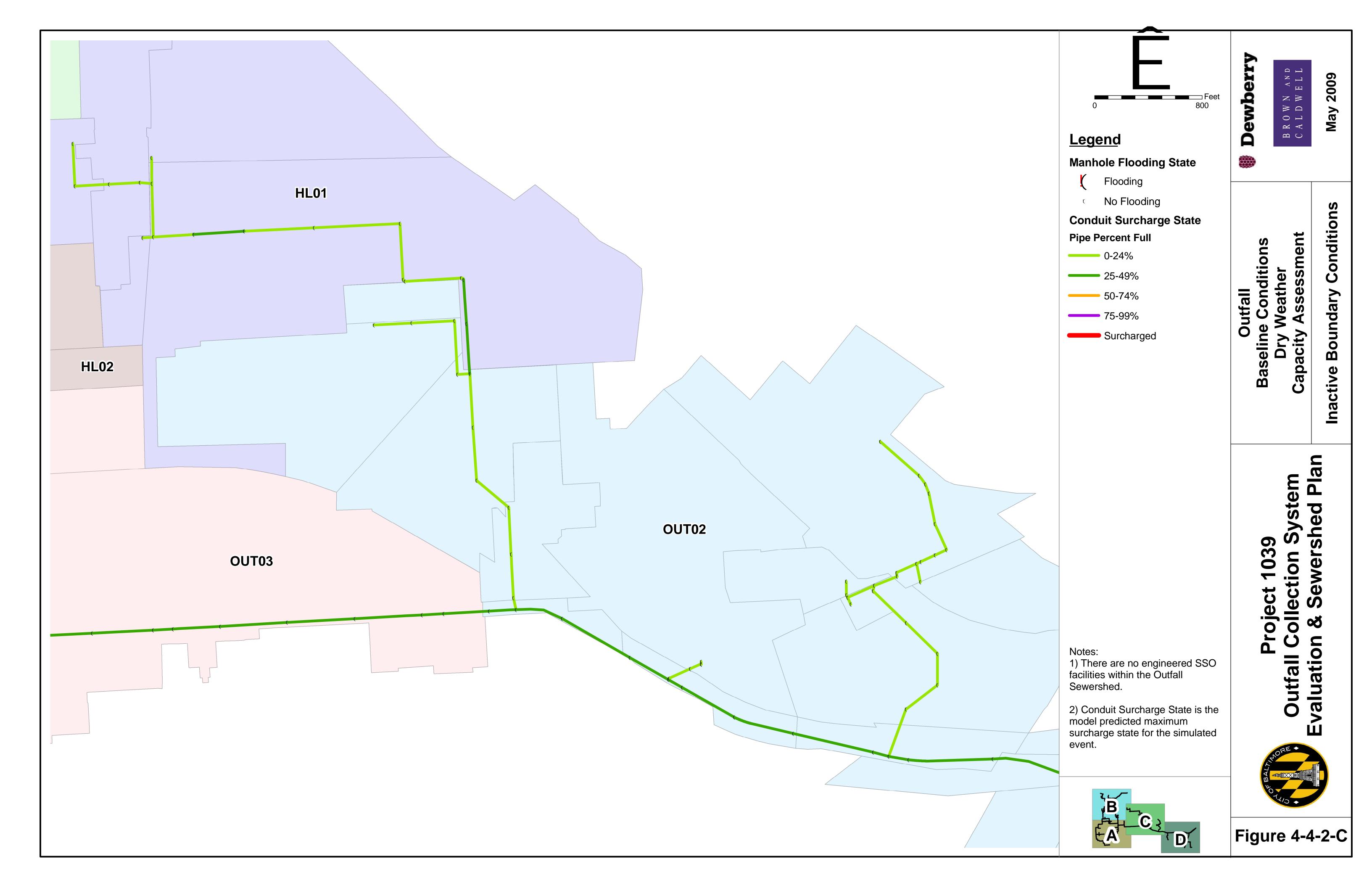


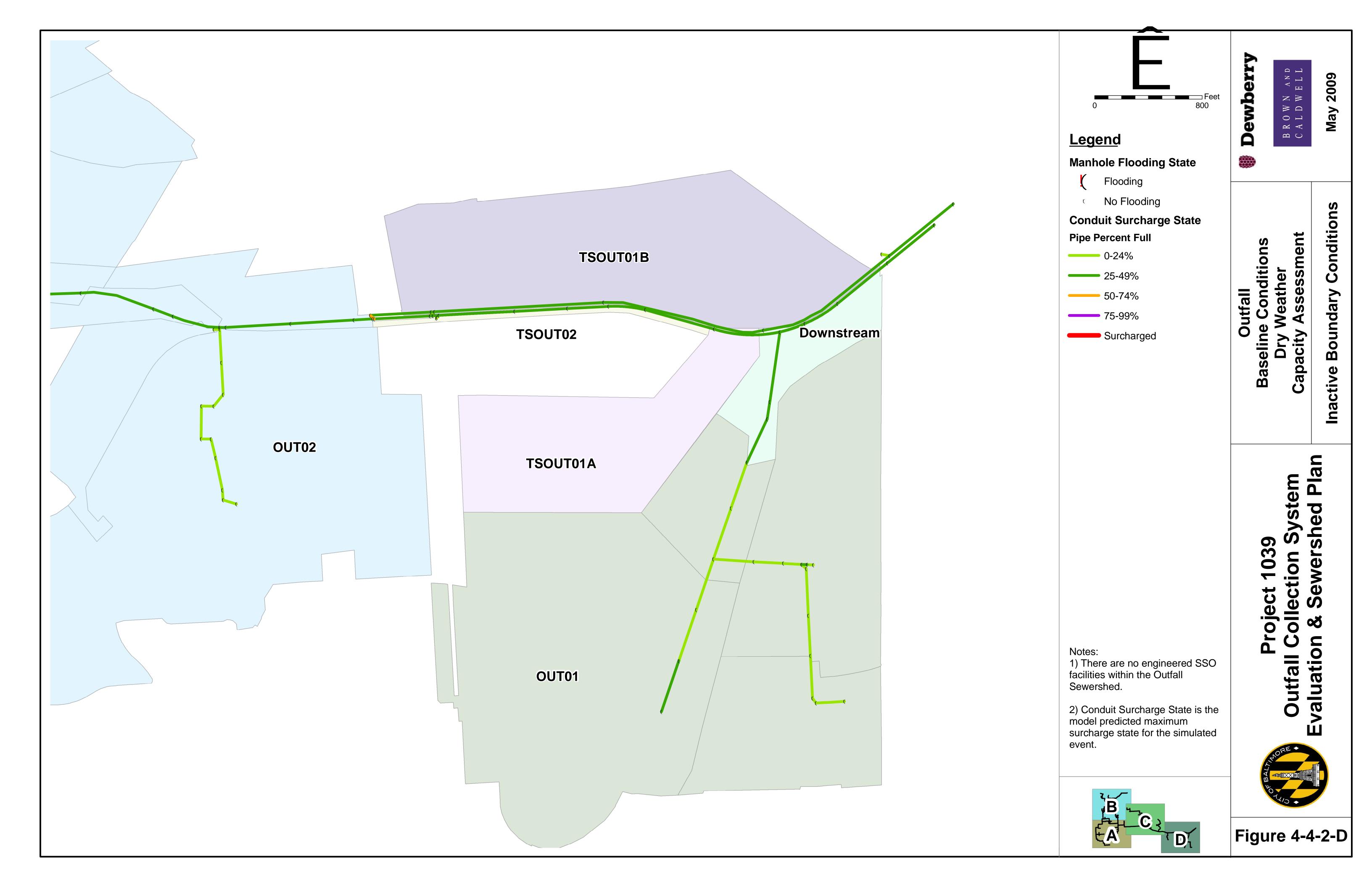


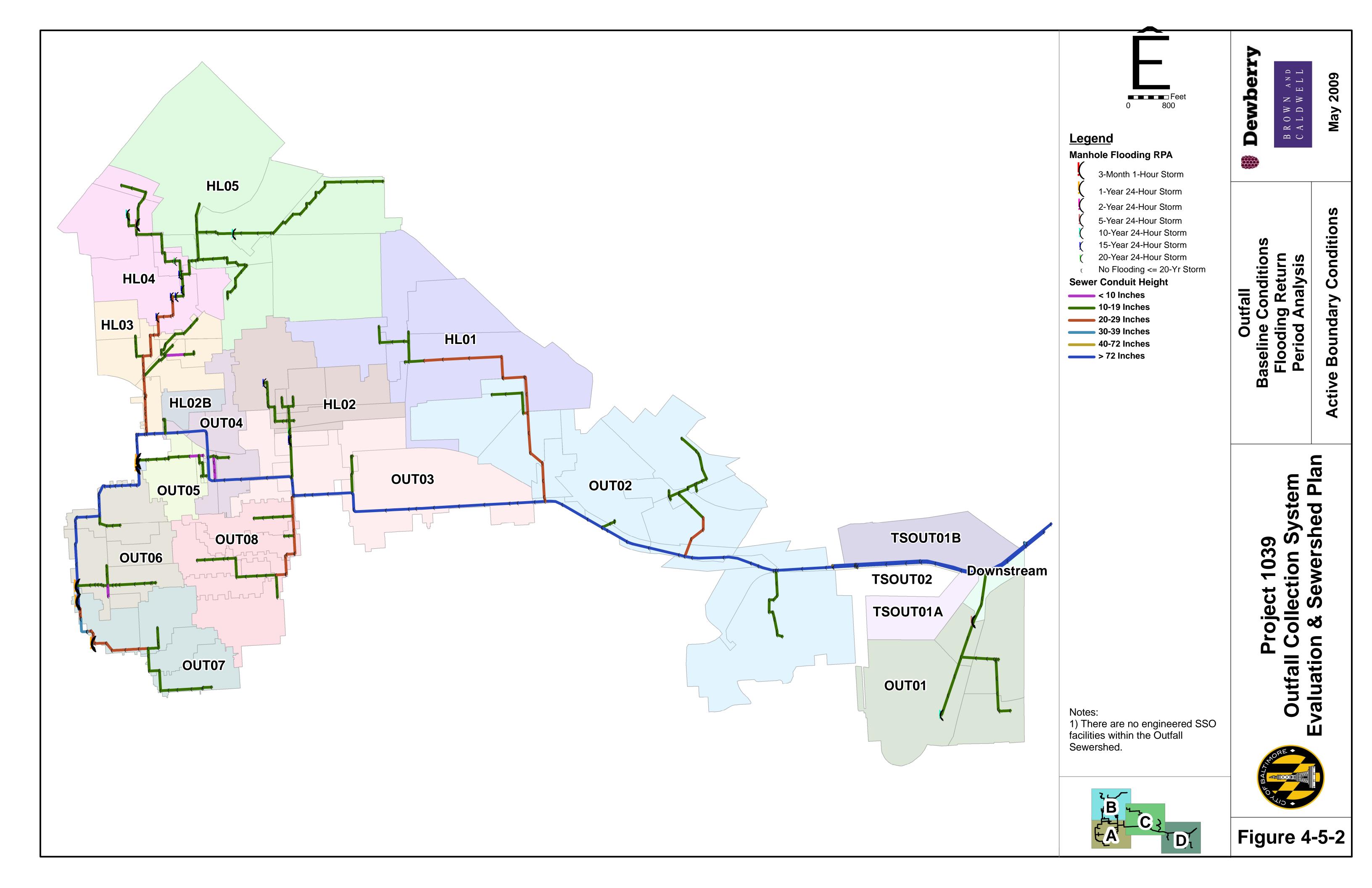


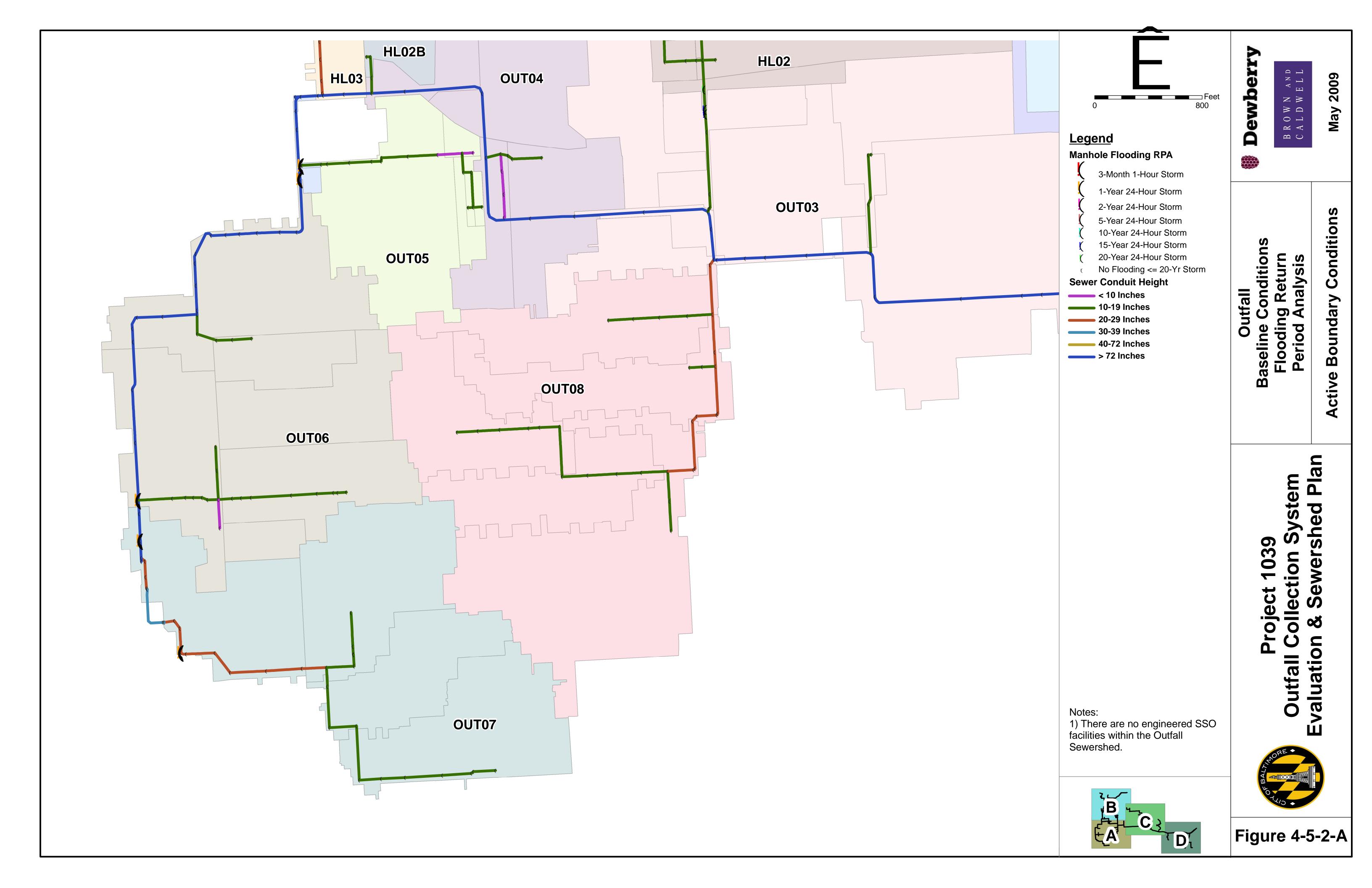


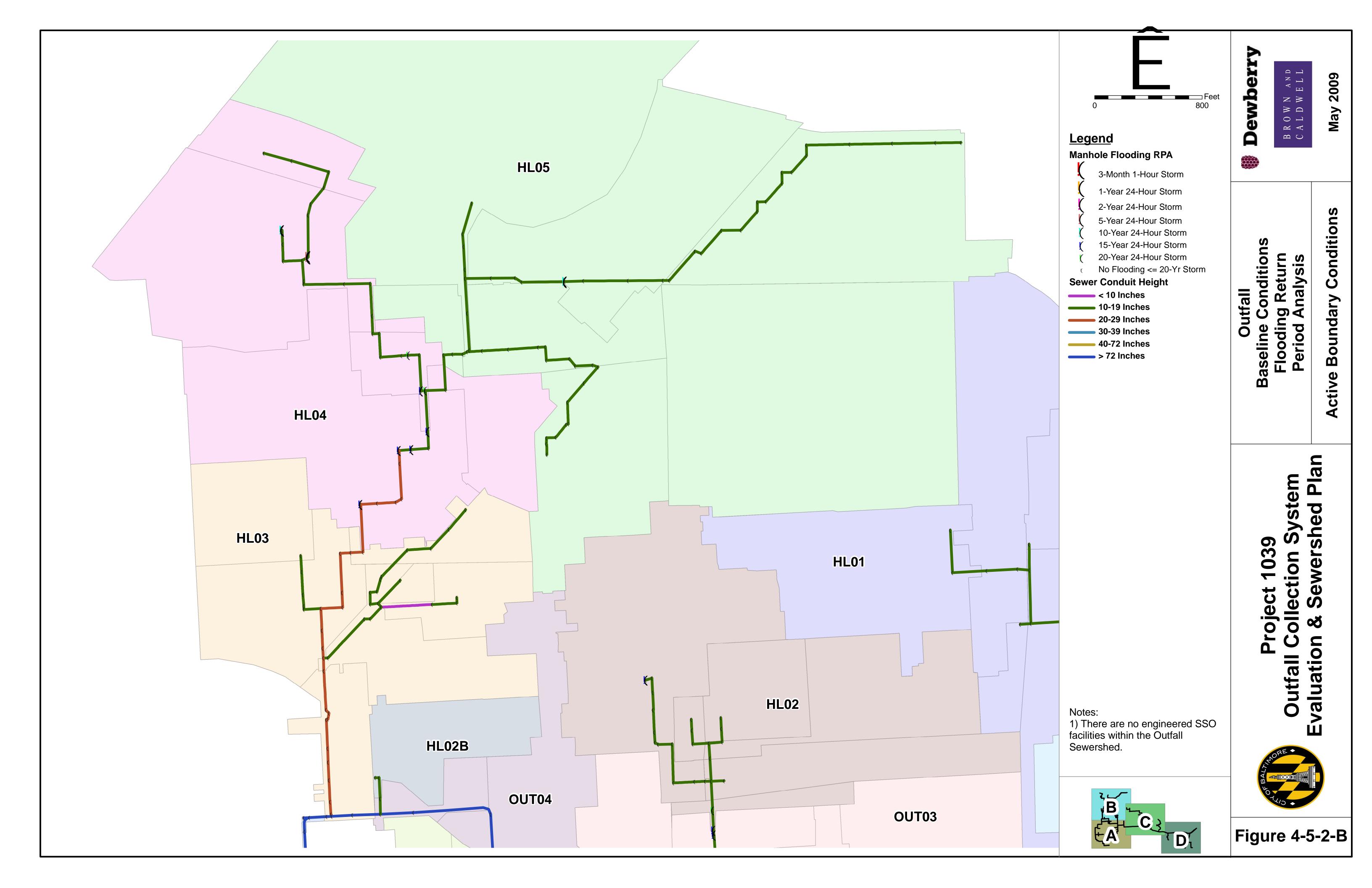


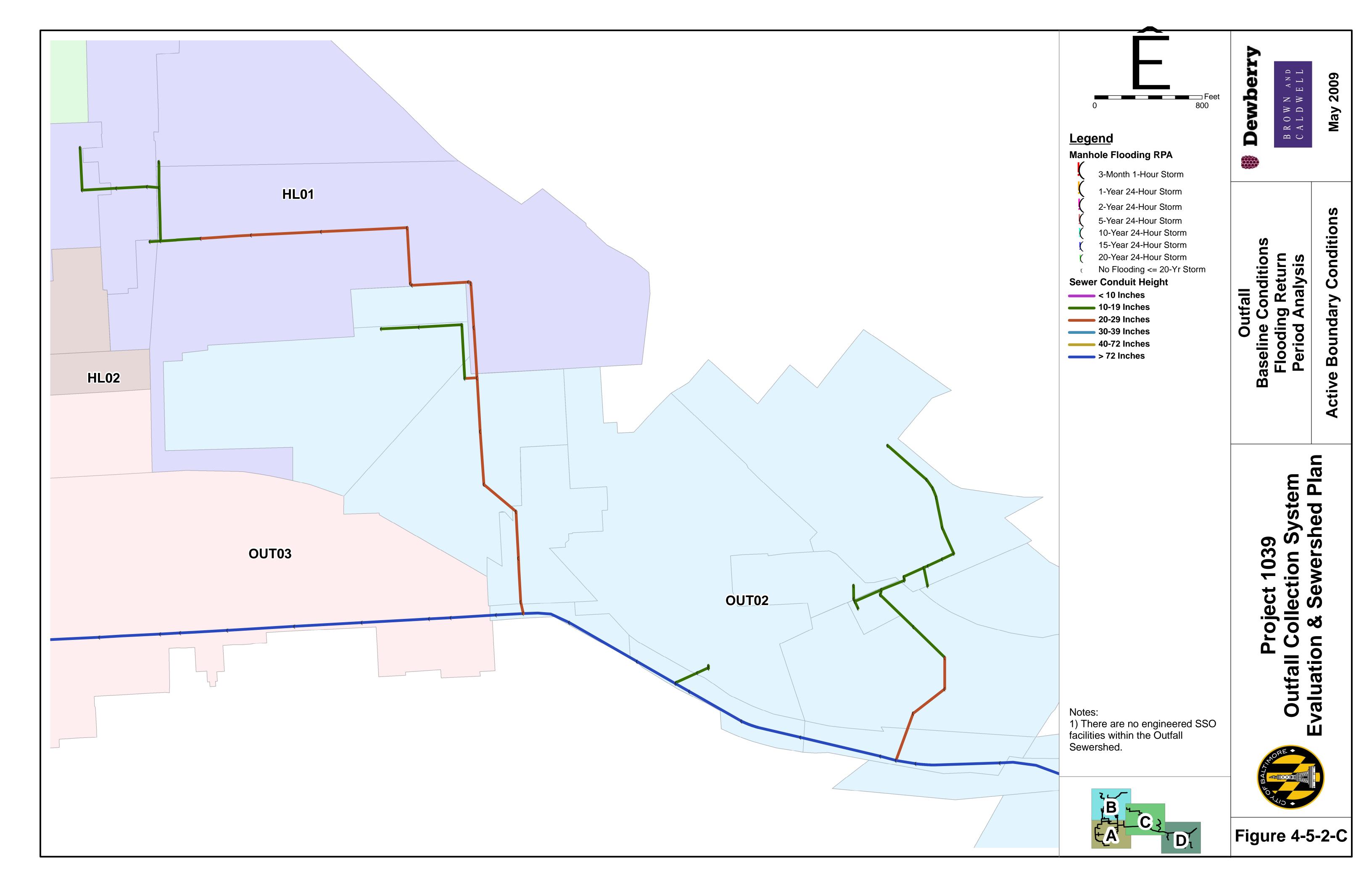


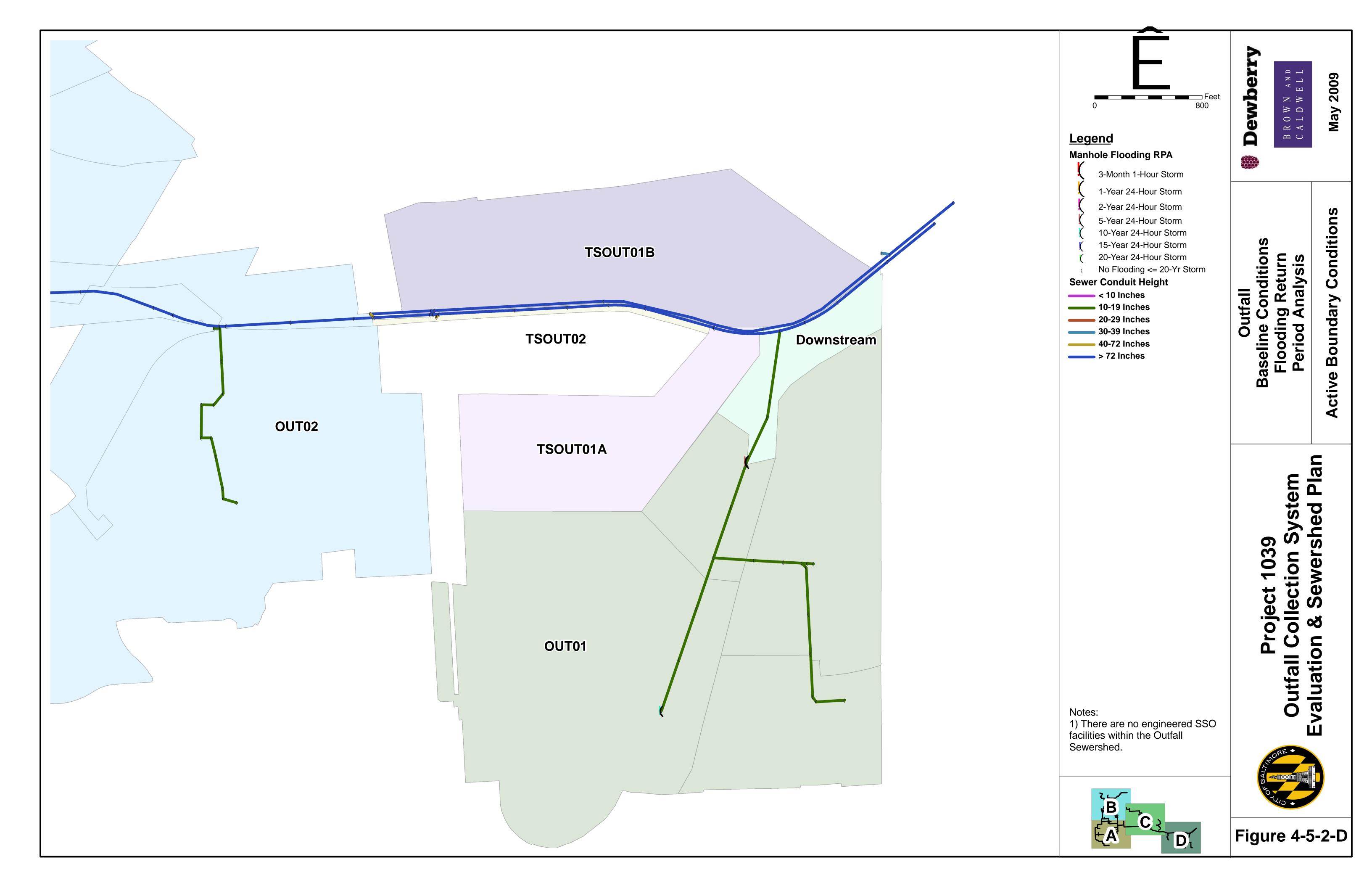


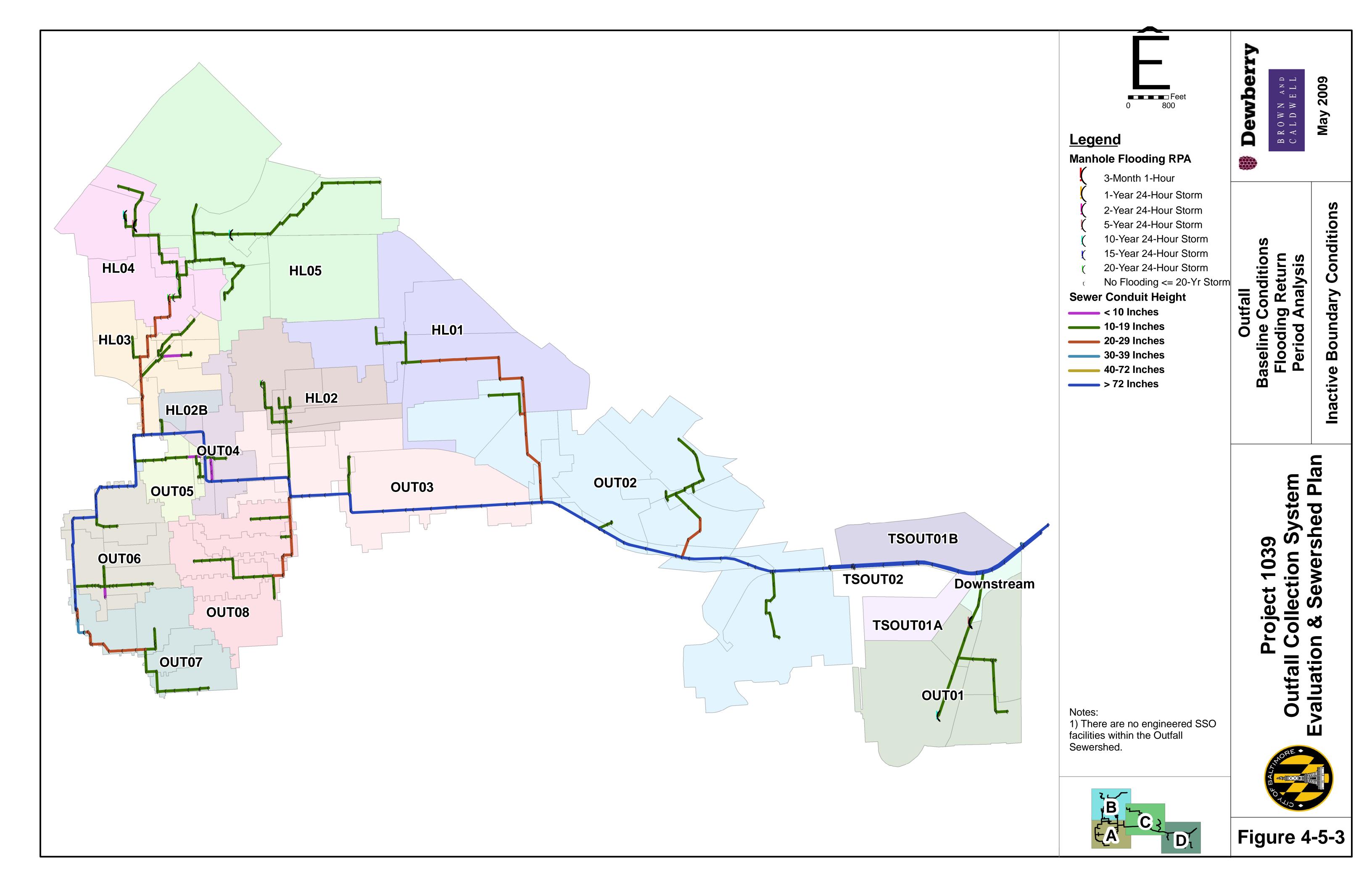


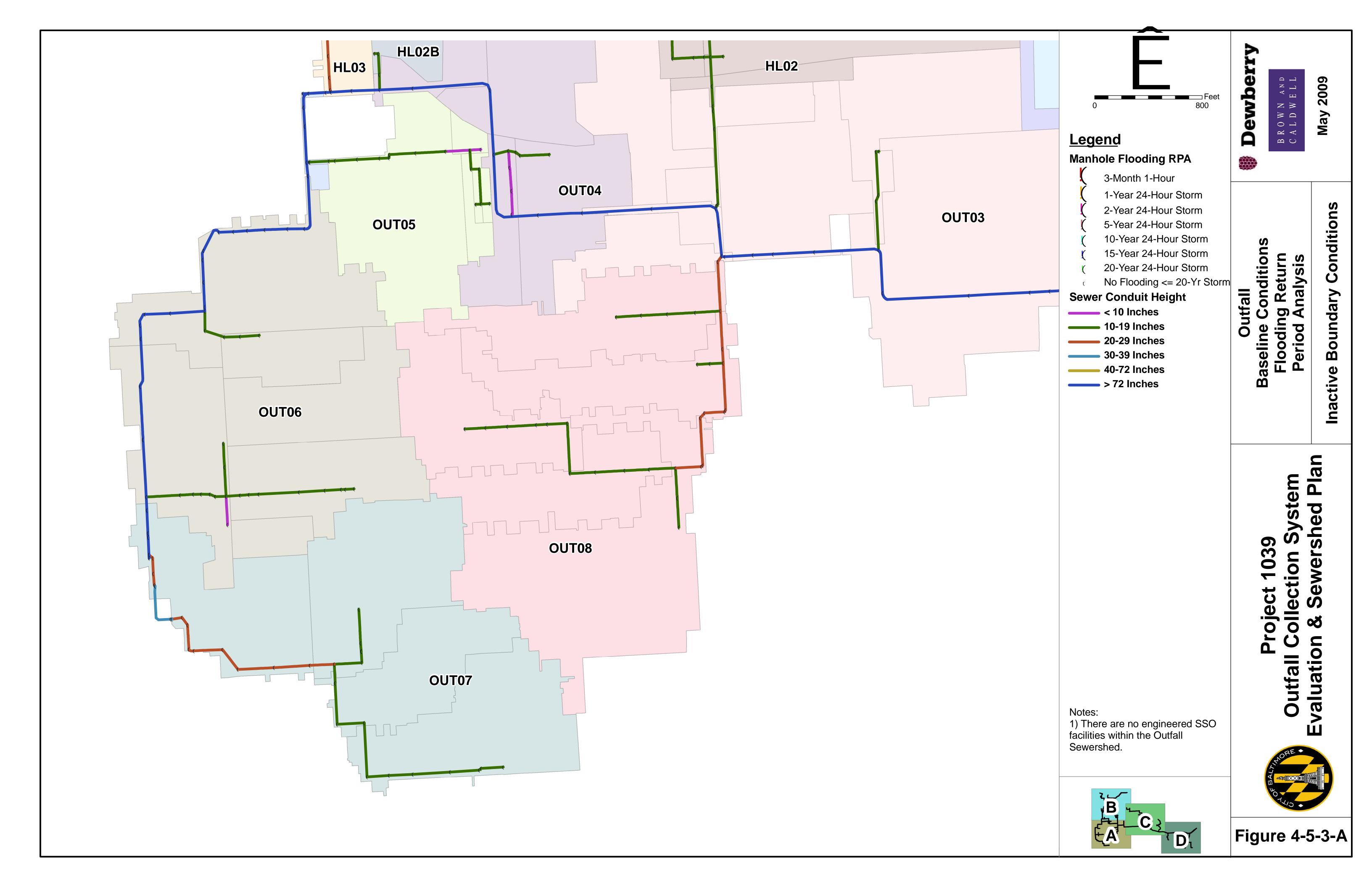


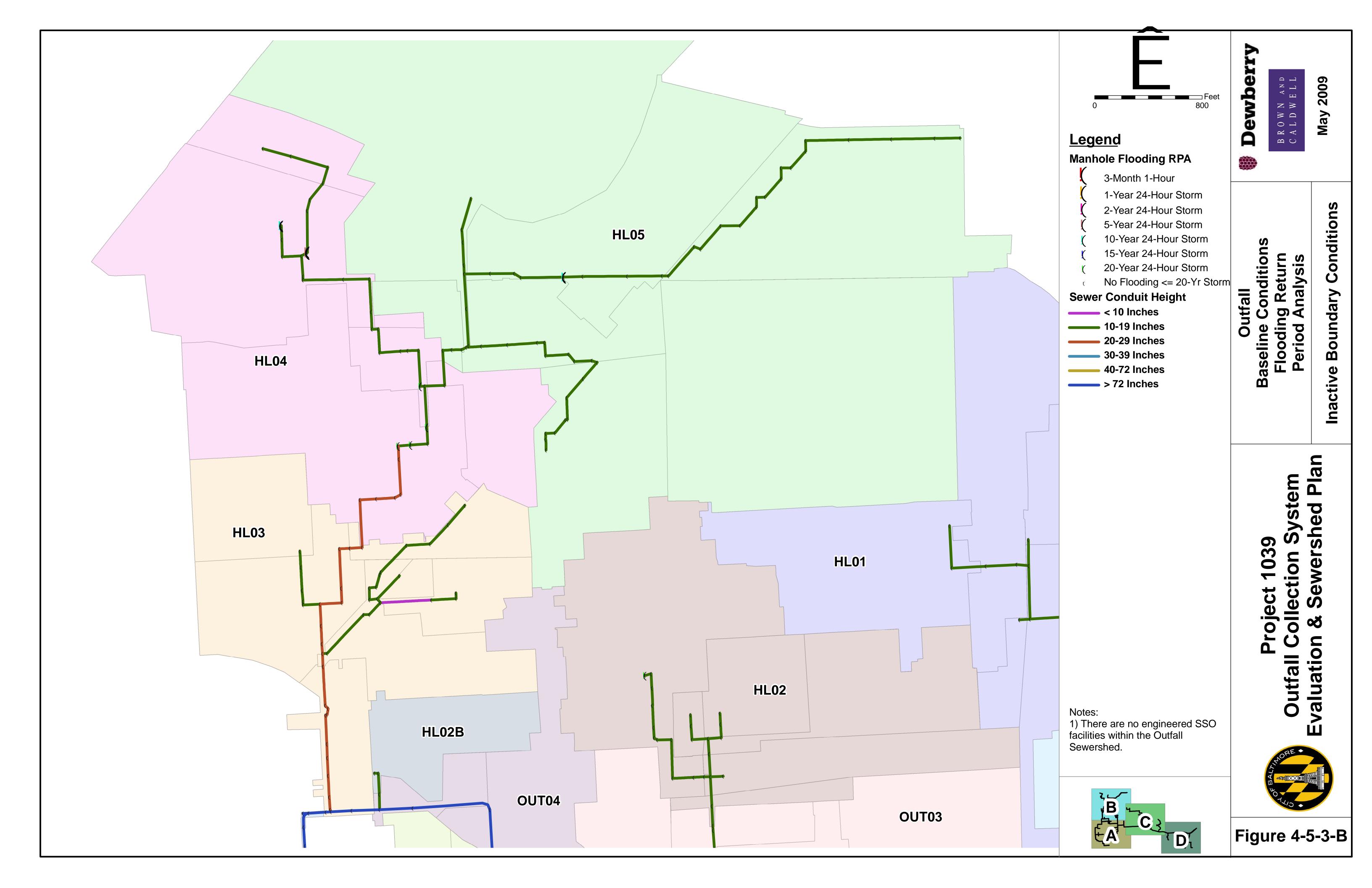


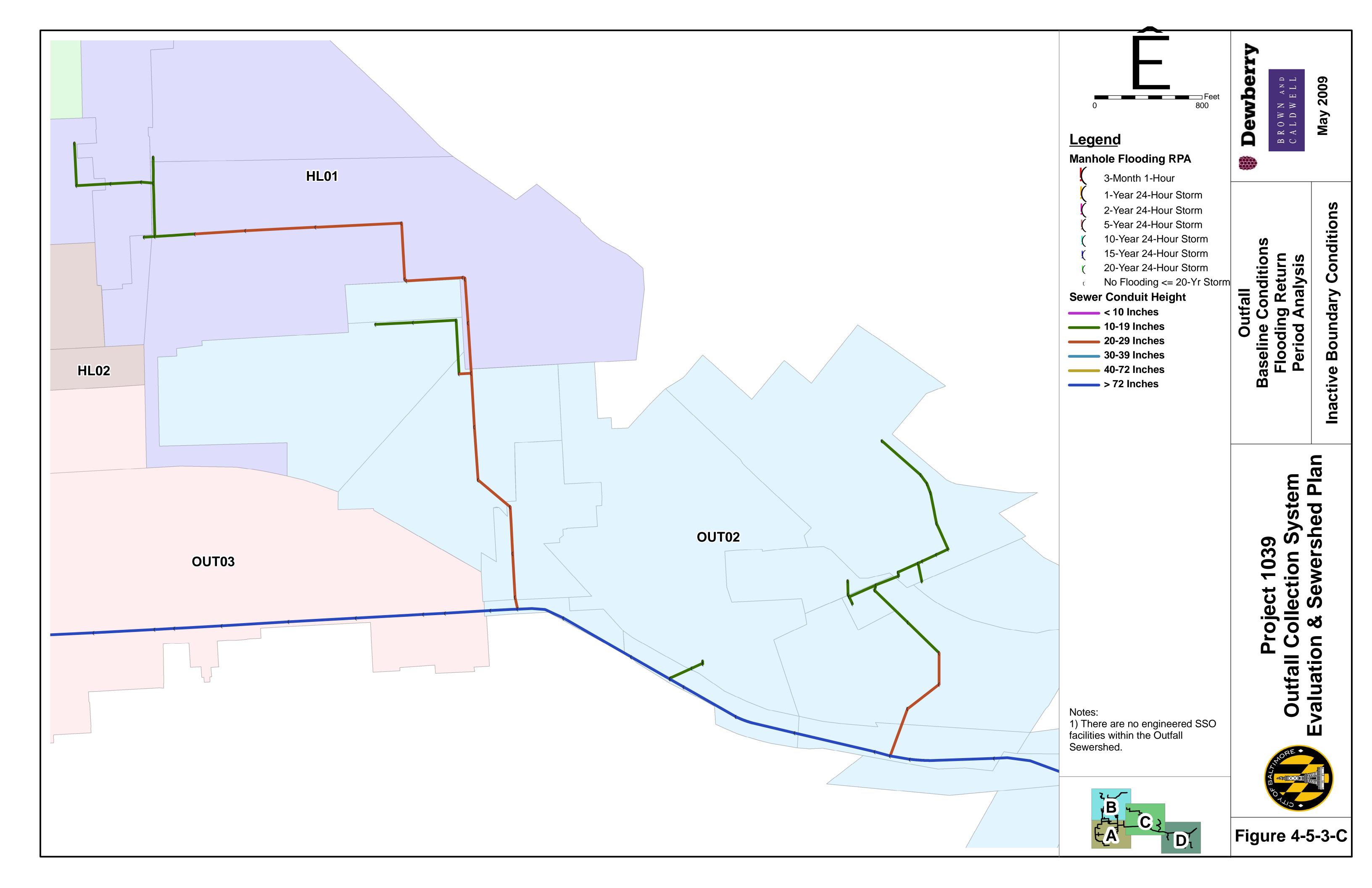


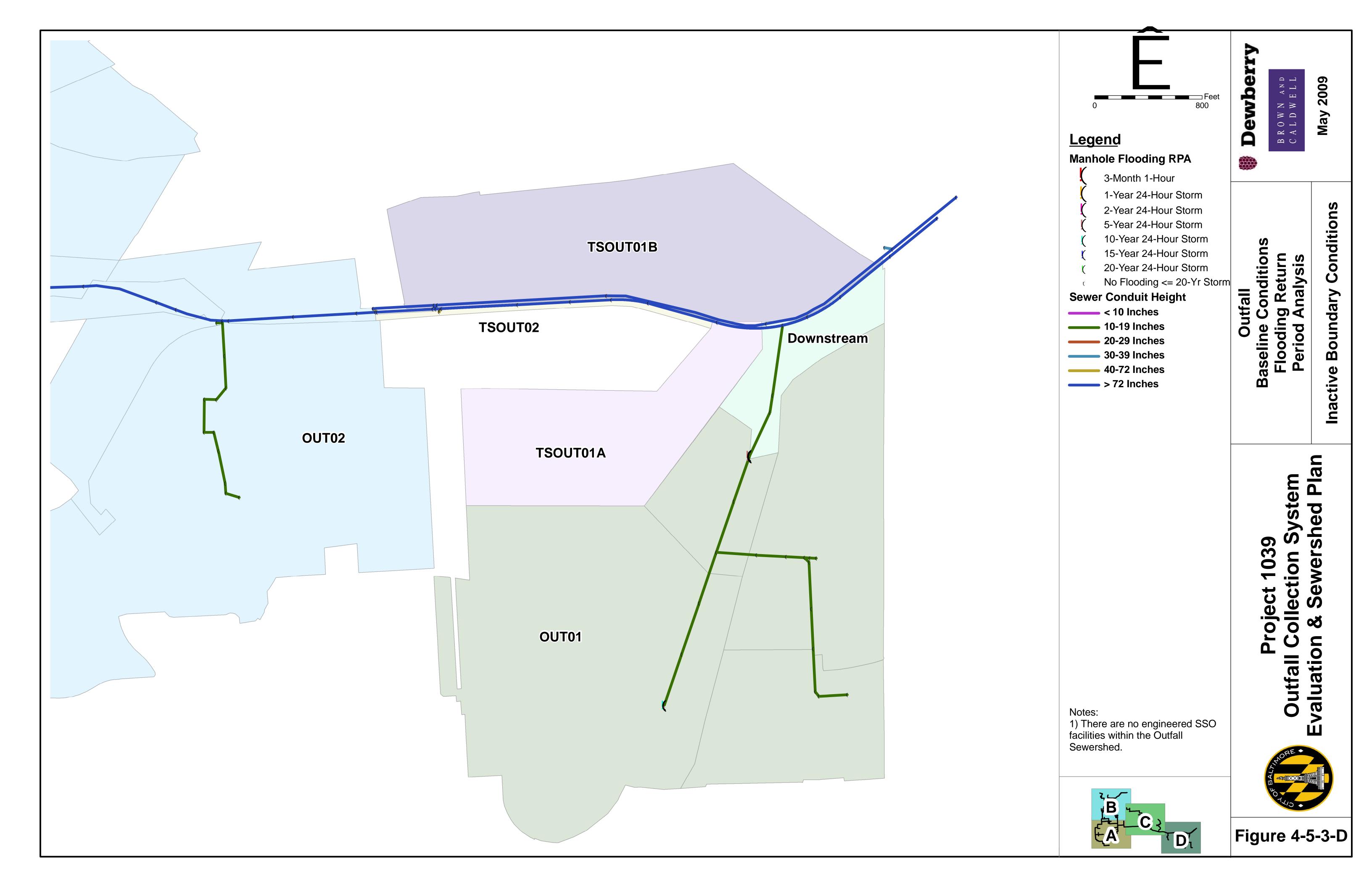


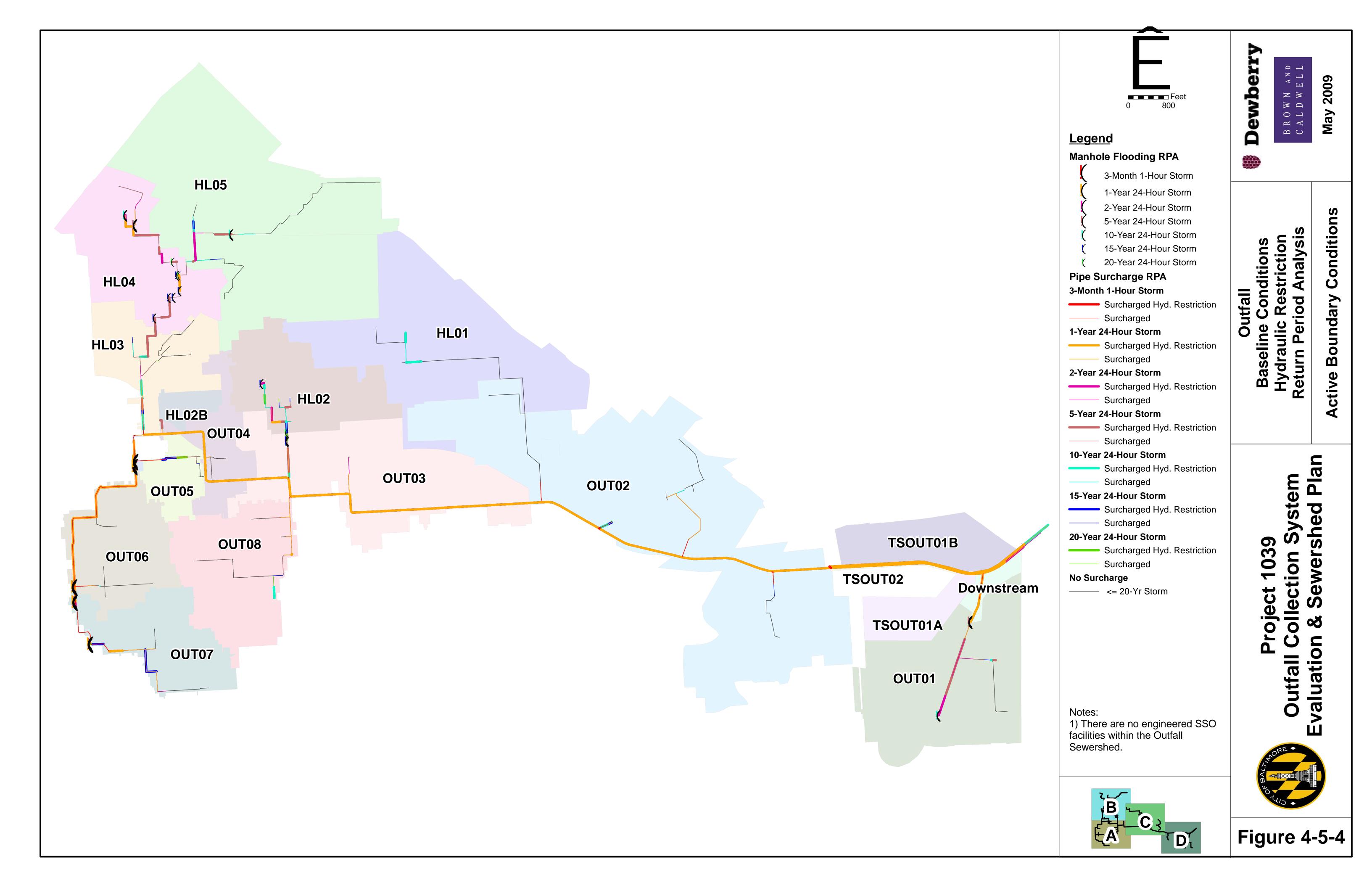


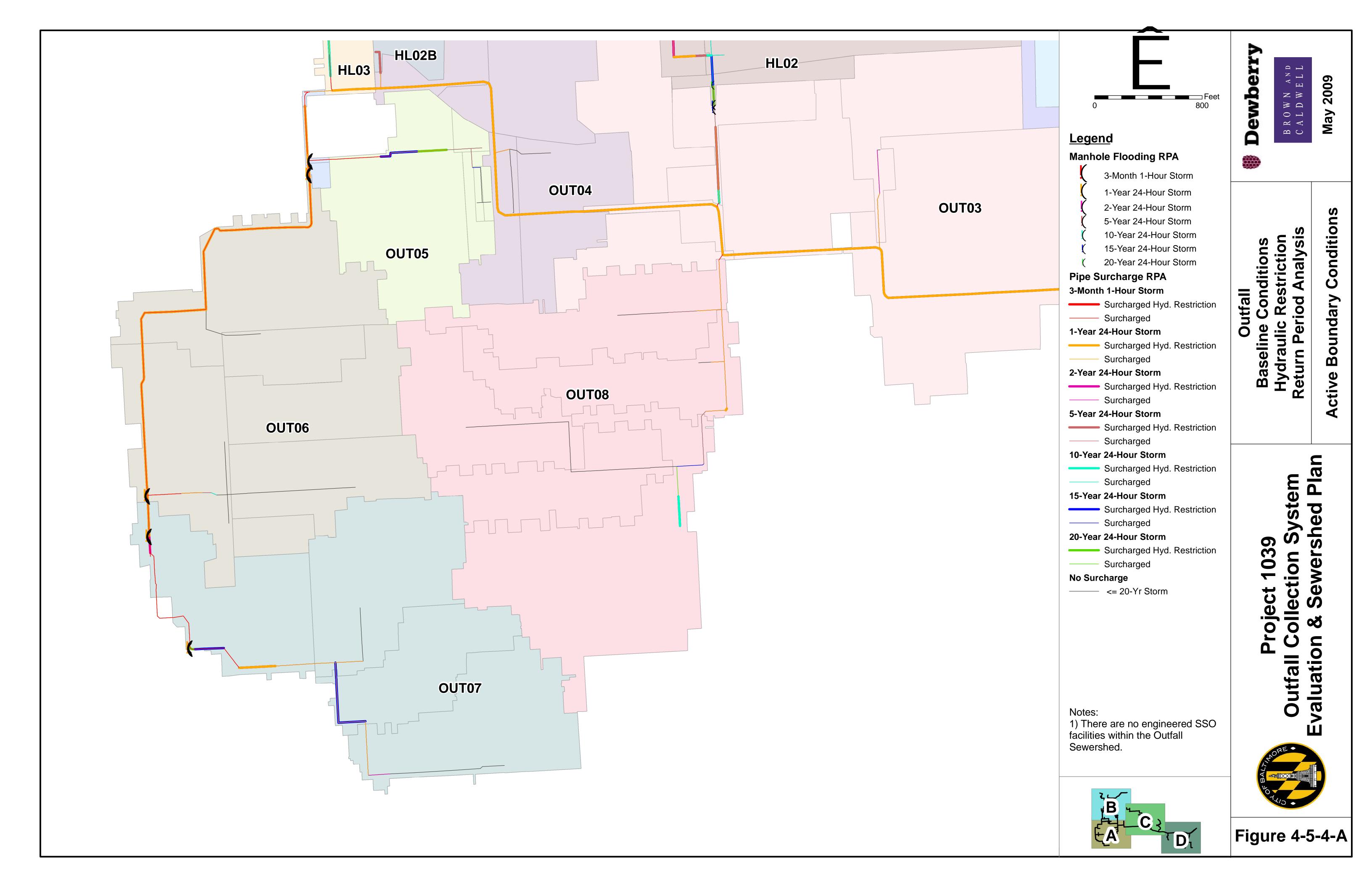


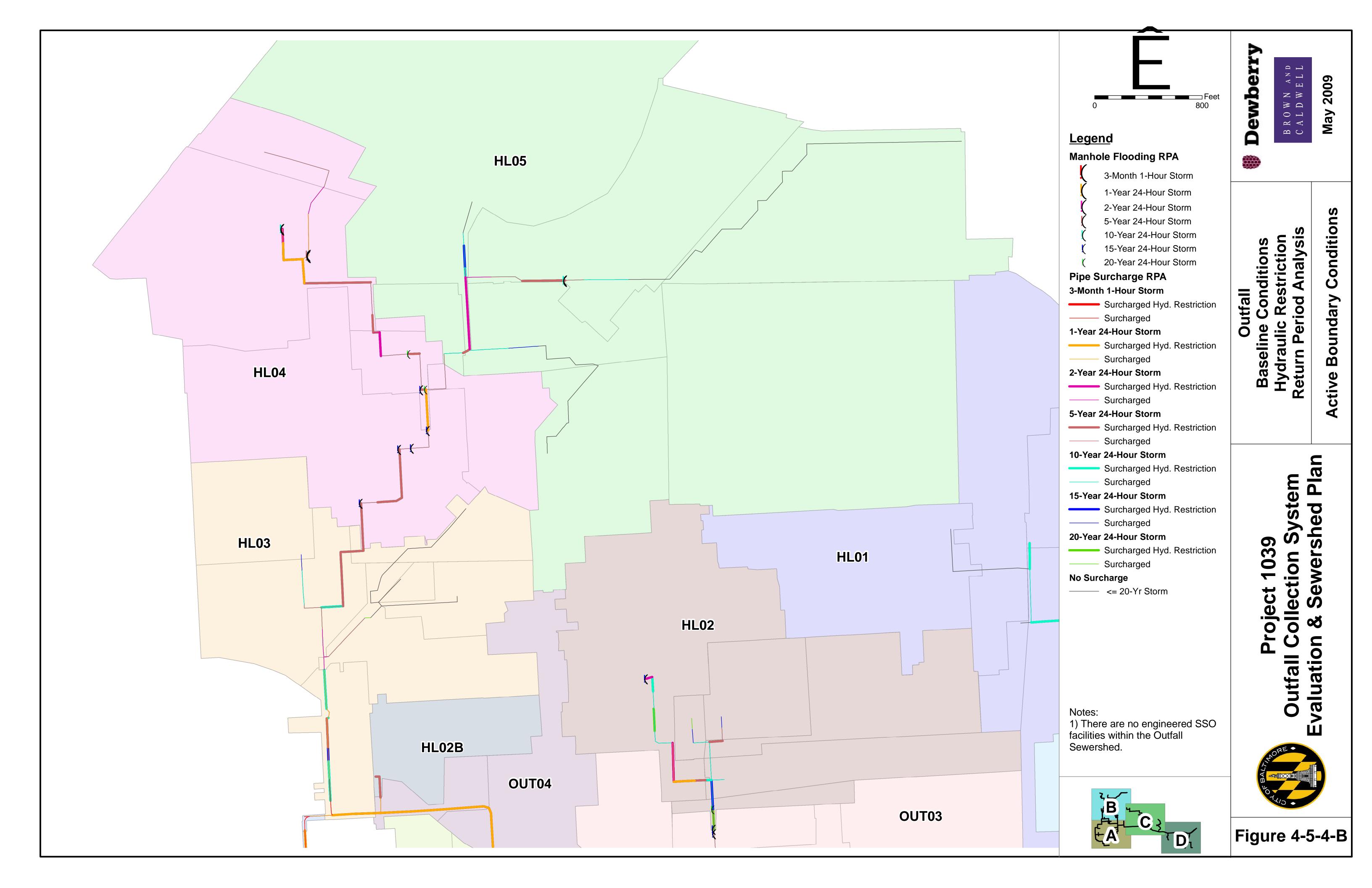


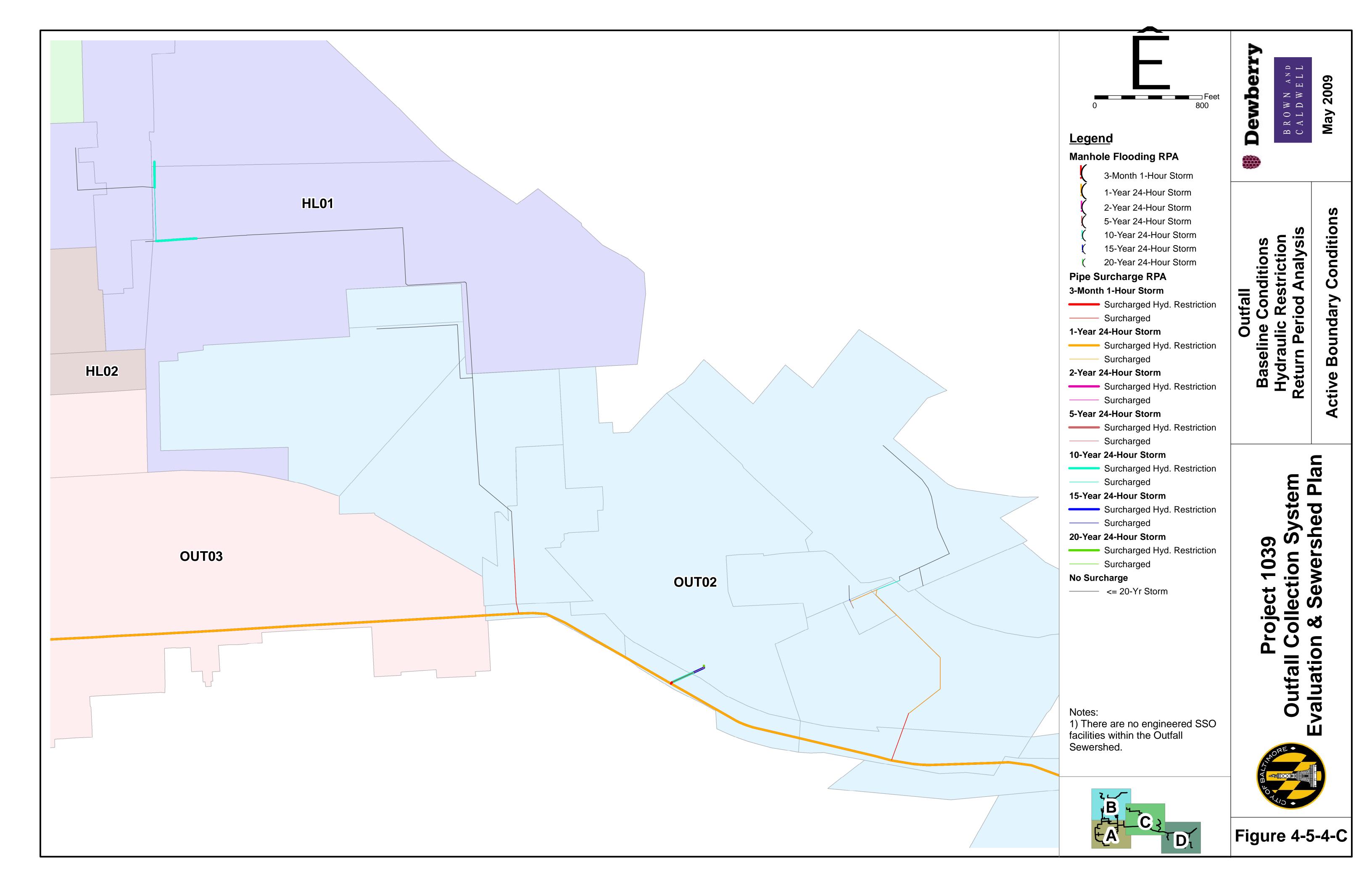














BROWN CALDW

2009

Conditions

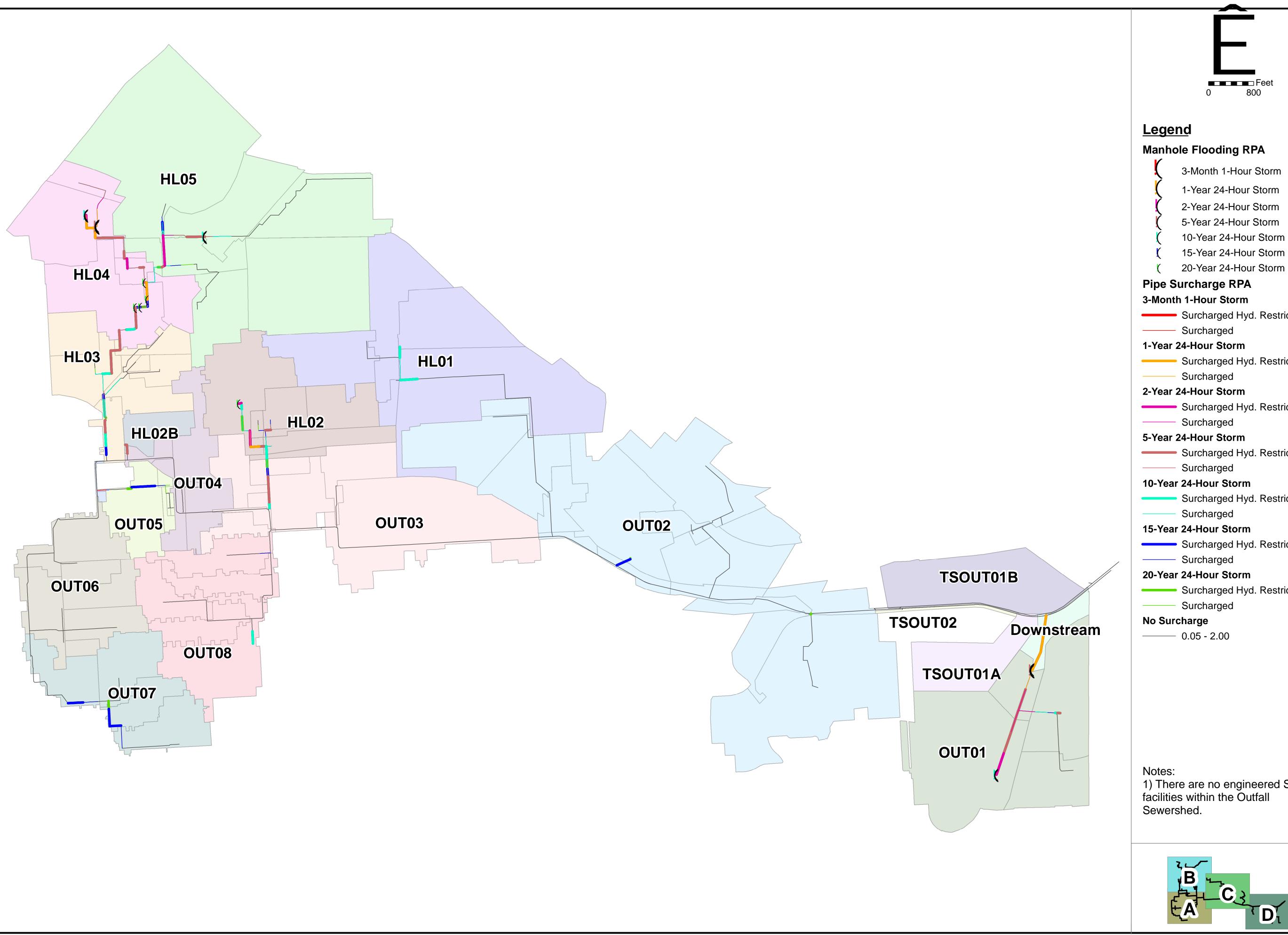
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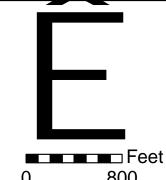


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Figure 4-5-4-D





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2009

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R O W A L D

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Manhole Flooding RPA

3-Month 1-Hour Storm

1-Year 24-Hour Storm

2-Year 24-Hour Storm

10-Year 24-Hour Storm

20-Year 24-Hour Storm

Pipe Surcharge RPA

3-Month 1-Hour Storm

Surcharged Hyd. Restriction

1-Year 24-Hour Storm

Surcharged Hyd. Restriction

Surcharged

Surcharged Hyd. Restriction

Surcharged Hyd. Restriction

10-Year 24-Hour Storm

Surcharged Hyd. Restriction

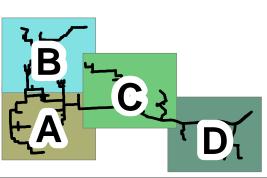
Surcharged

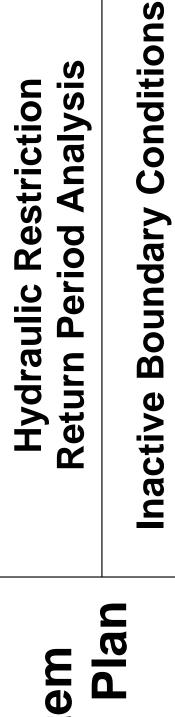
Surcharged Hyd. Restriction

20-Year 24-Hour Storm

Surcharged Hyd. Restriction

1) There are no engineered SSO facilities within the Outfall

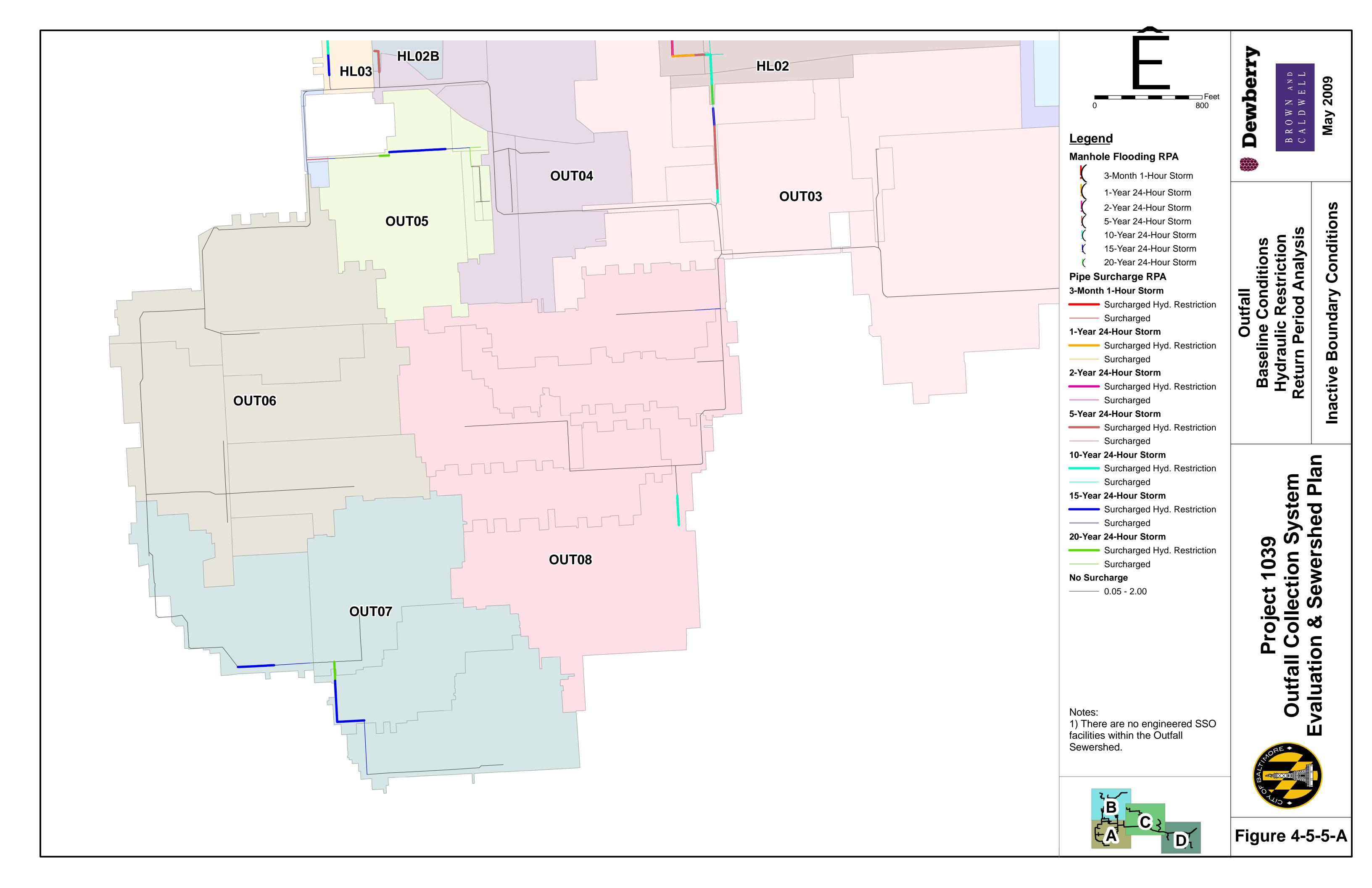


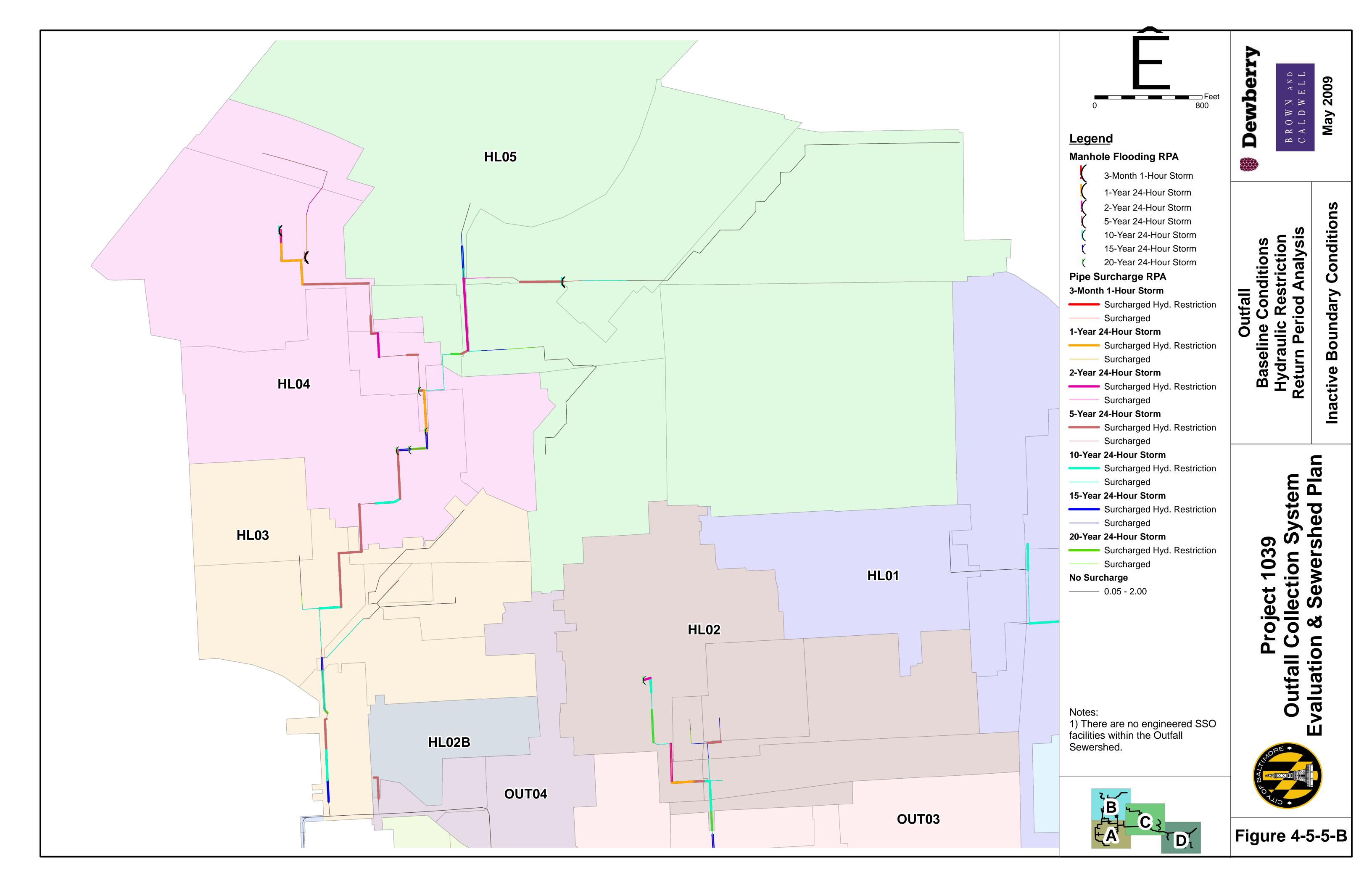


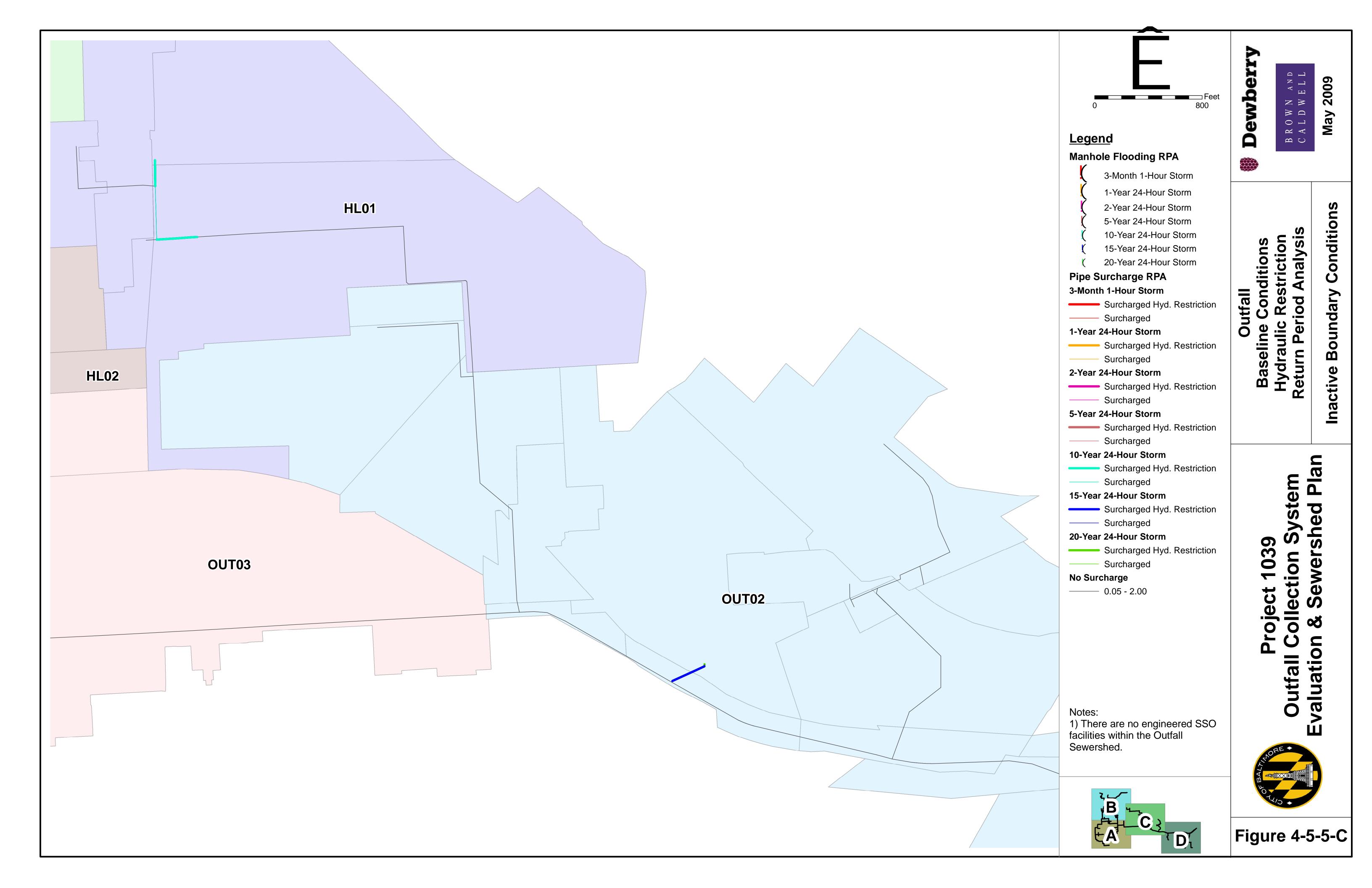
039 ollection valuatio Outfall

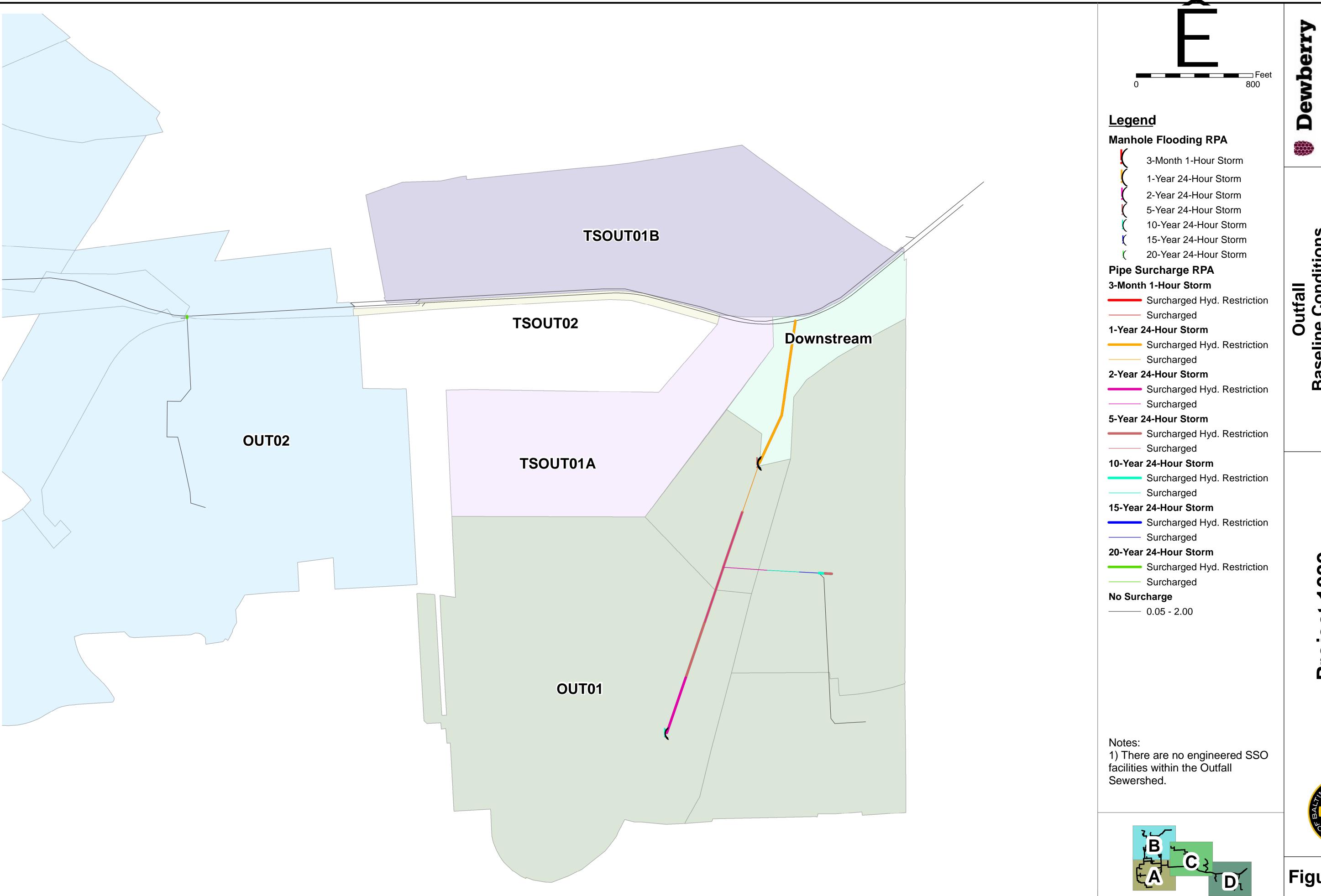


Figure 4-5-5









2009 R O W A L D

Conditions

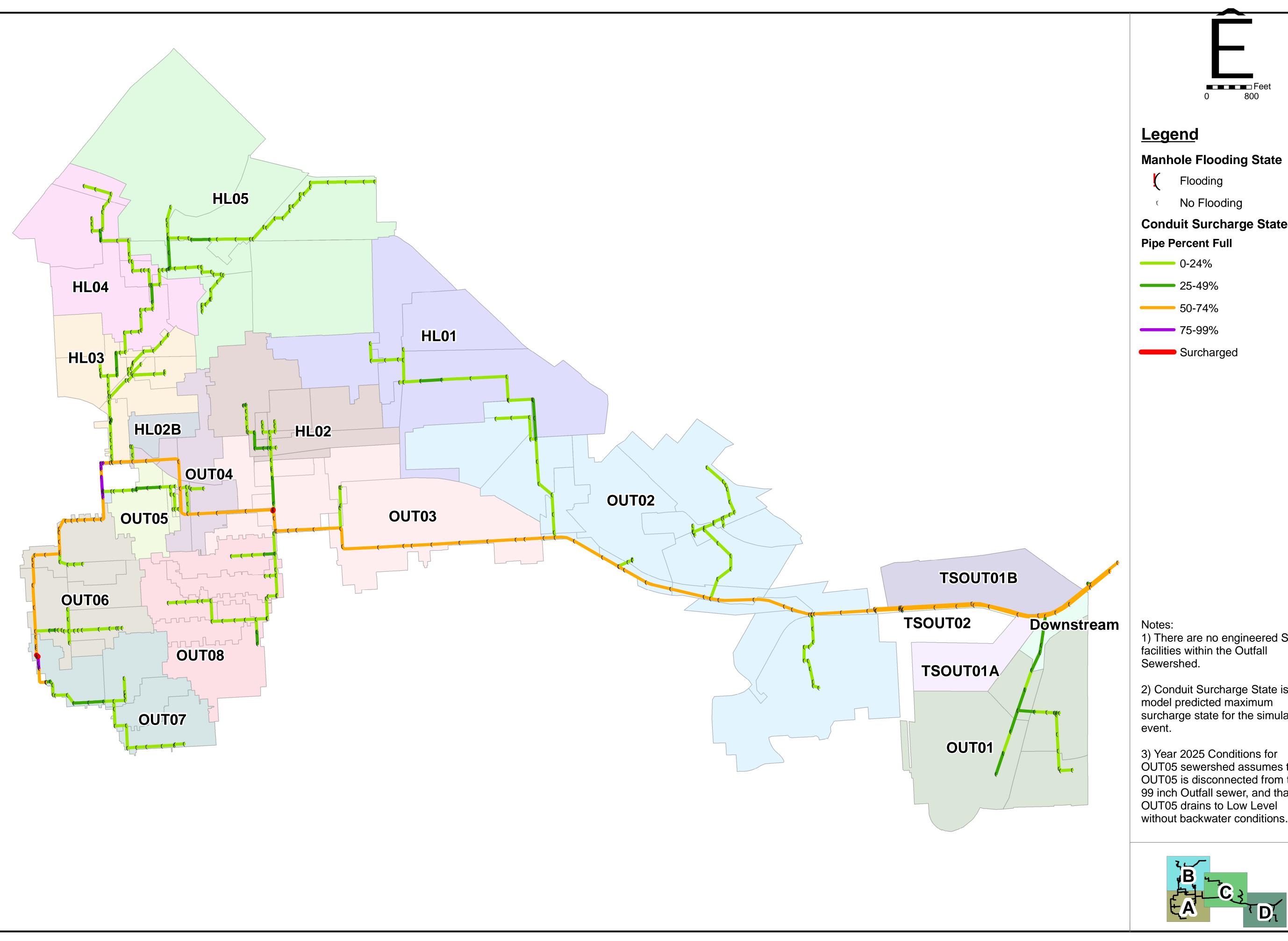
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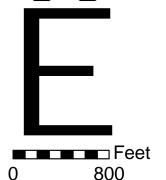
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Figure 4-5-5-D





Conduit Surcharge State

ConditionsYeather

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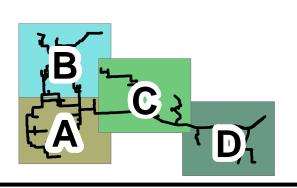
Dewberr

2009

Conditions

Boundary

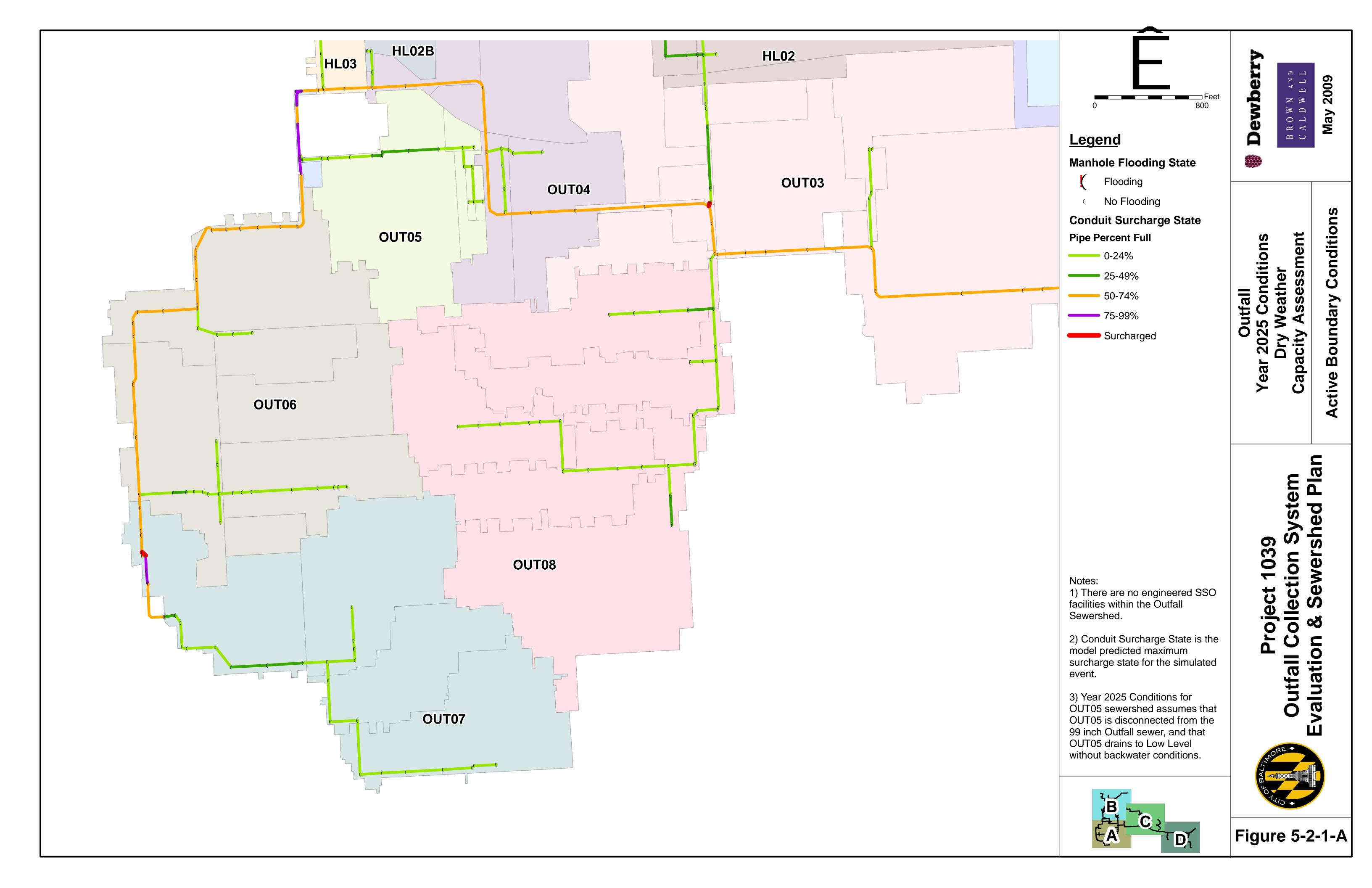
- There are no engineered SSO facilities within the Outfall
- 2) Conduit Surcharge State is the model predicted maximum surcharge state for the simulated
- 3) Year 2025 Conditions for OUT05 sewershed assumes that OUT05 is disconnected from the 99 inch Outfall sewer, and that OUT05 drains to Low Level without backwater conditions.

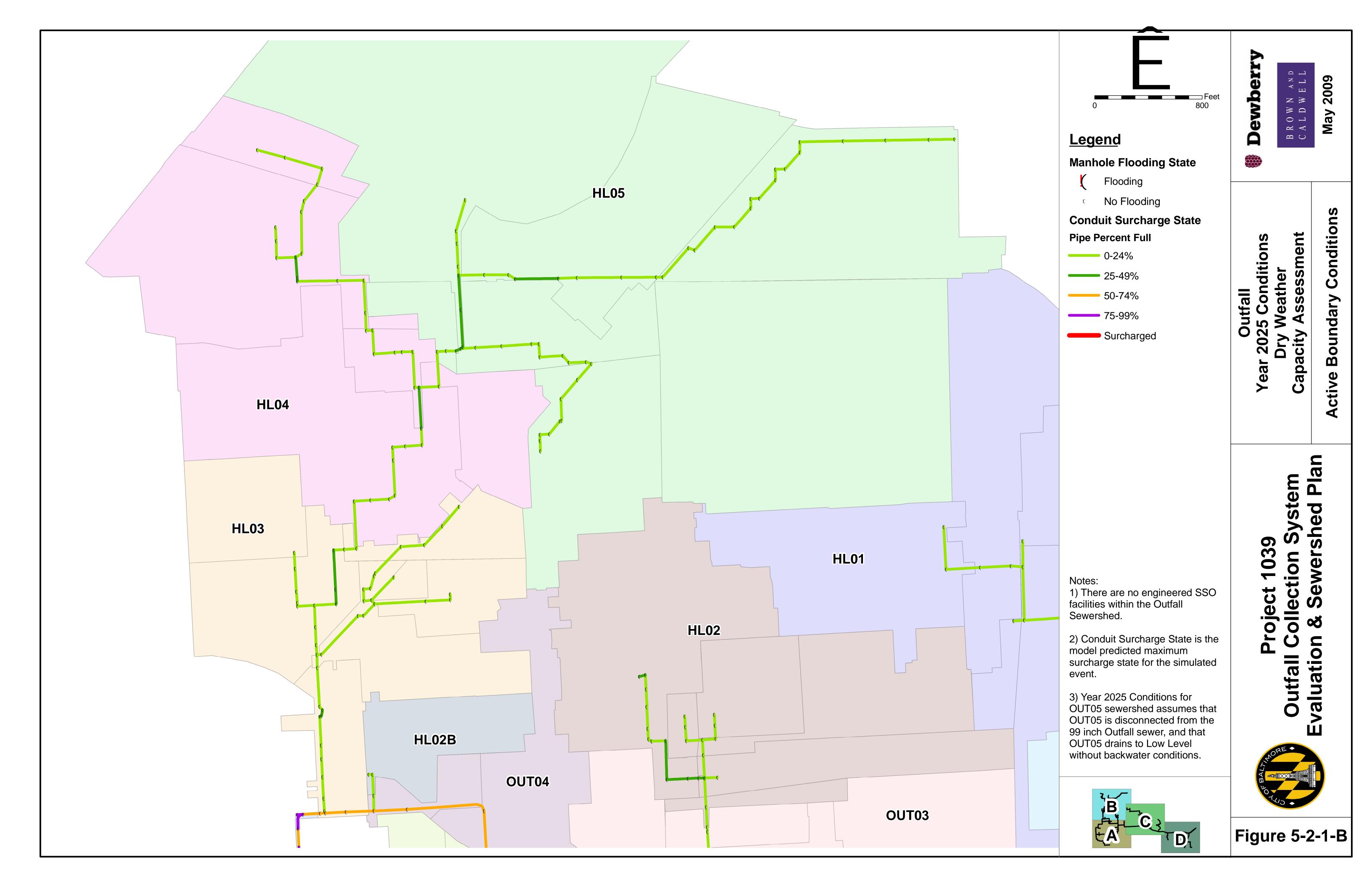


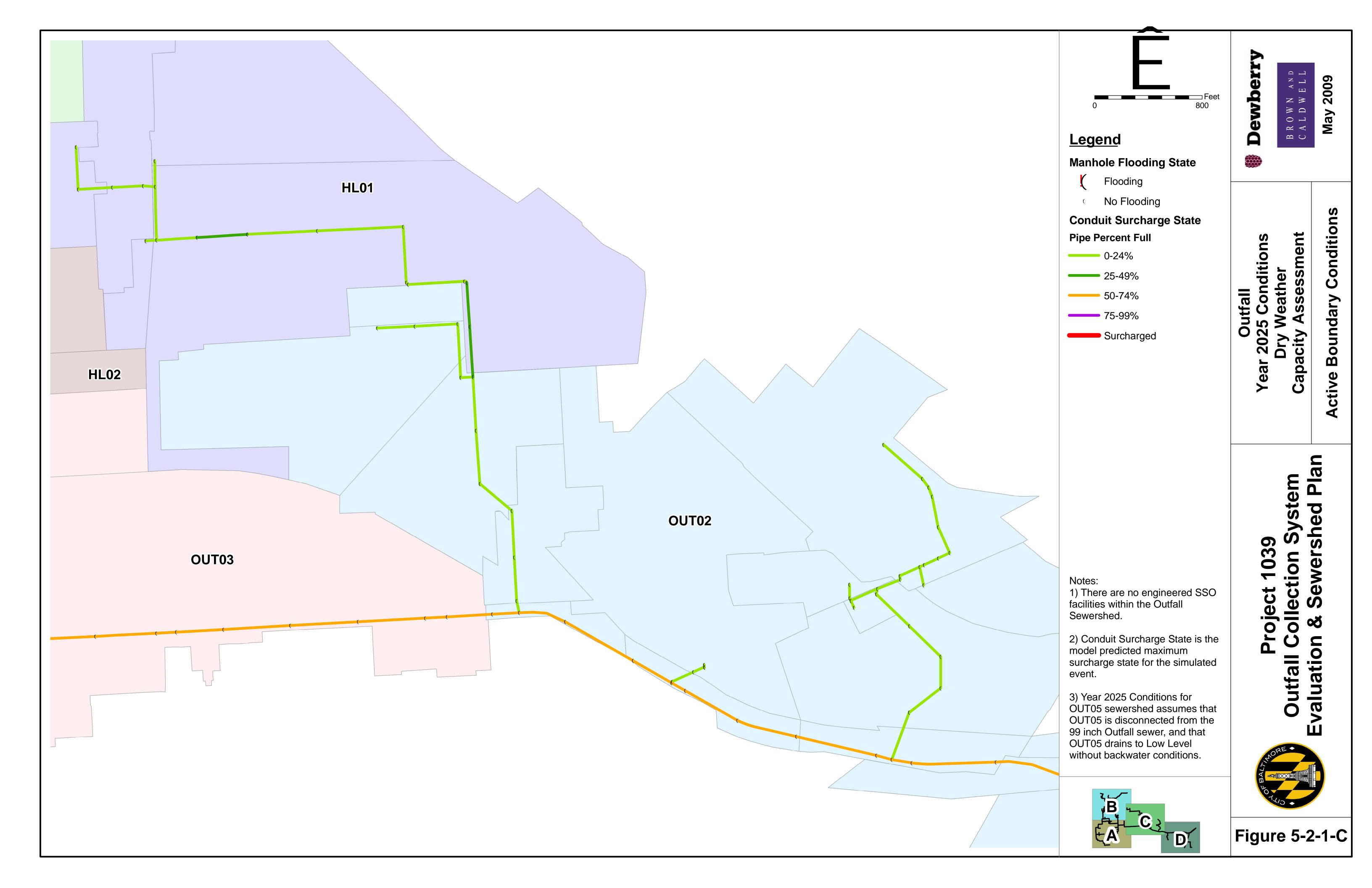


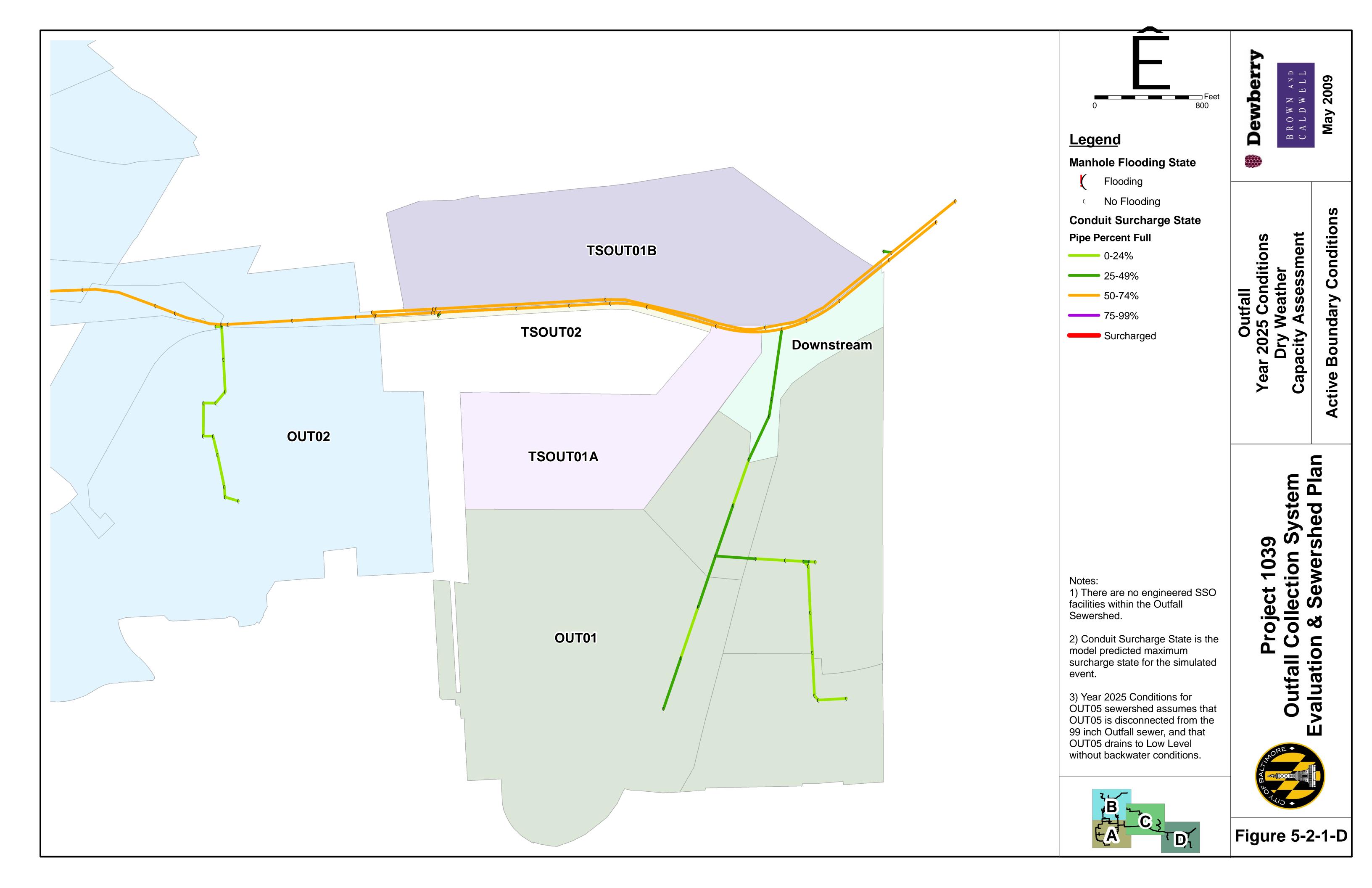
1039

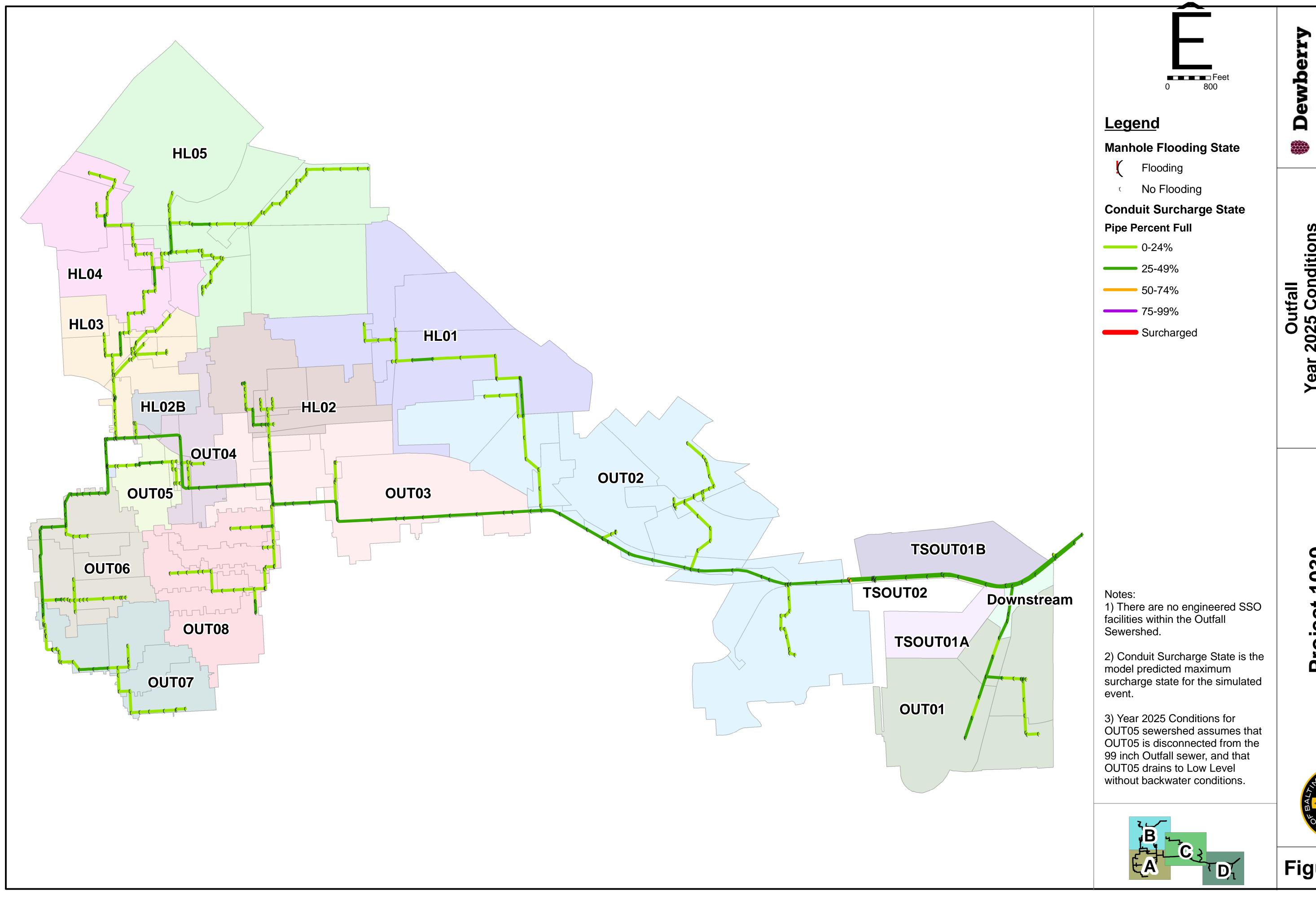
Figure 5-2-1











Year 2025 Conditions
Dry Weather

2009

Conditions

Boundary

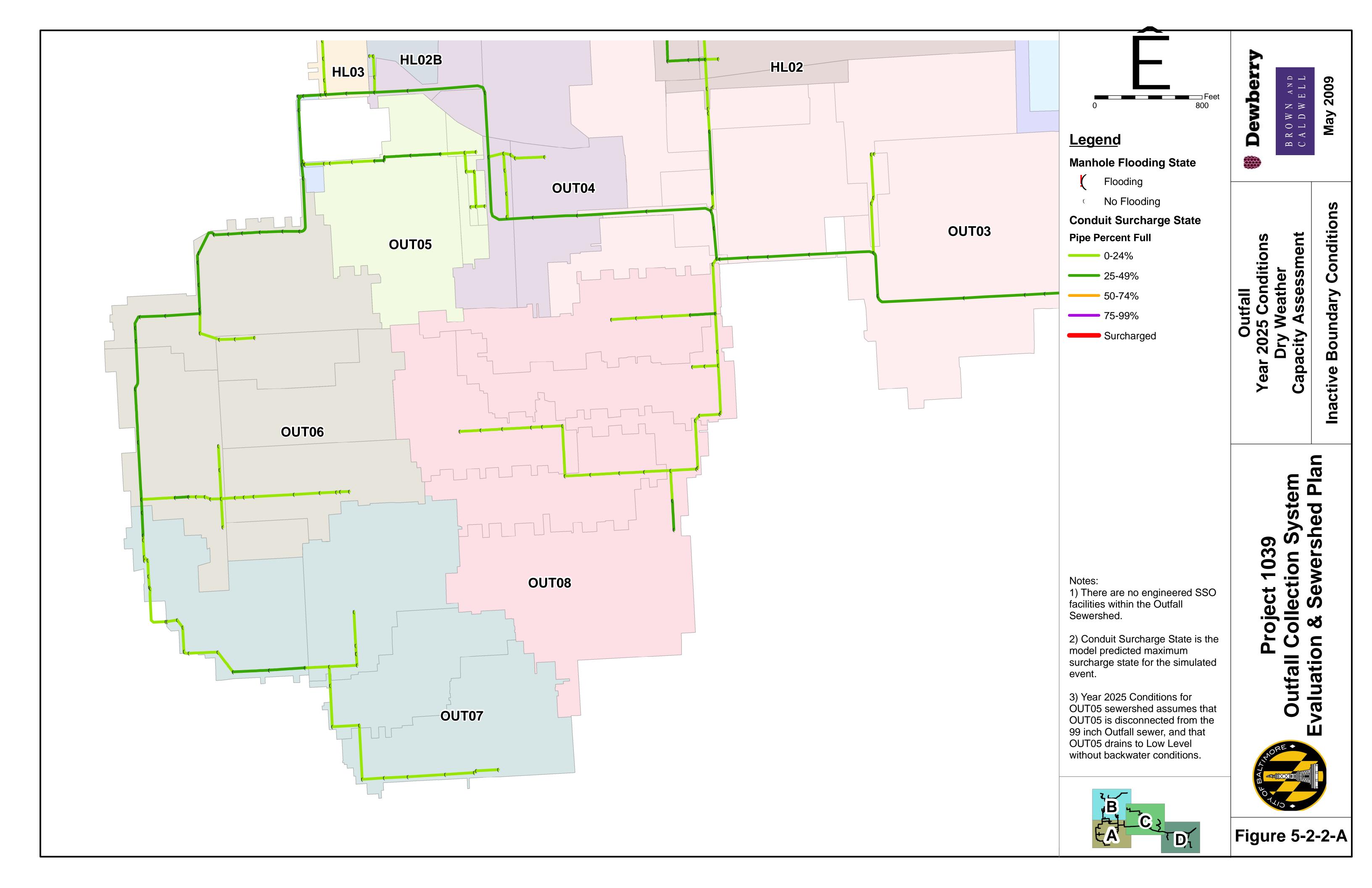
Inactive

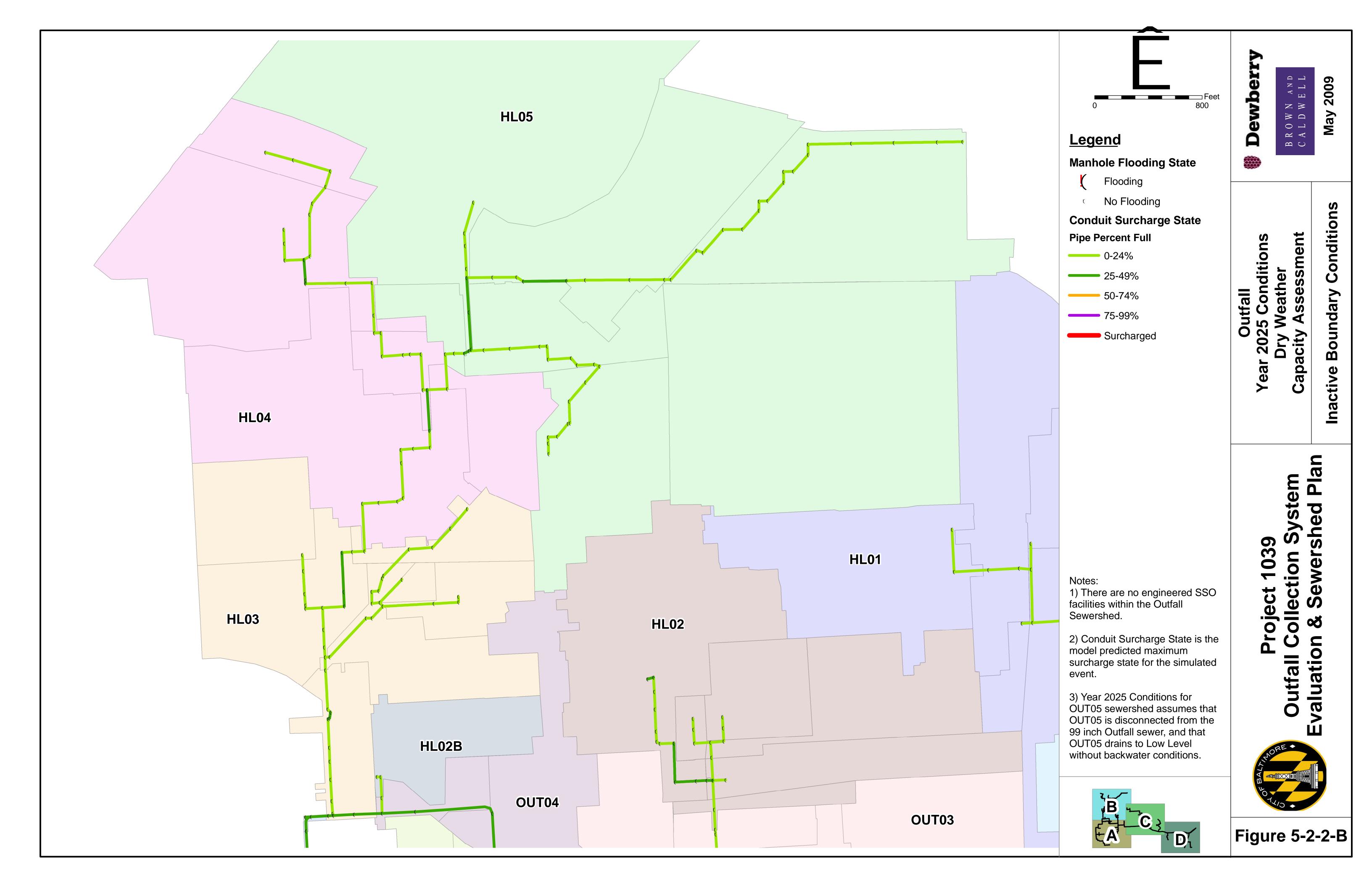
BROWN CALDW

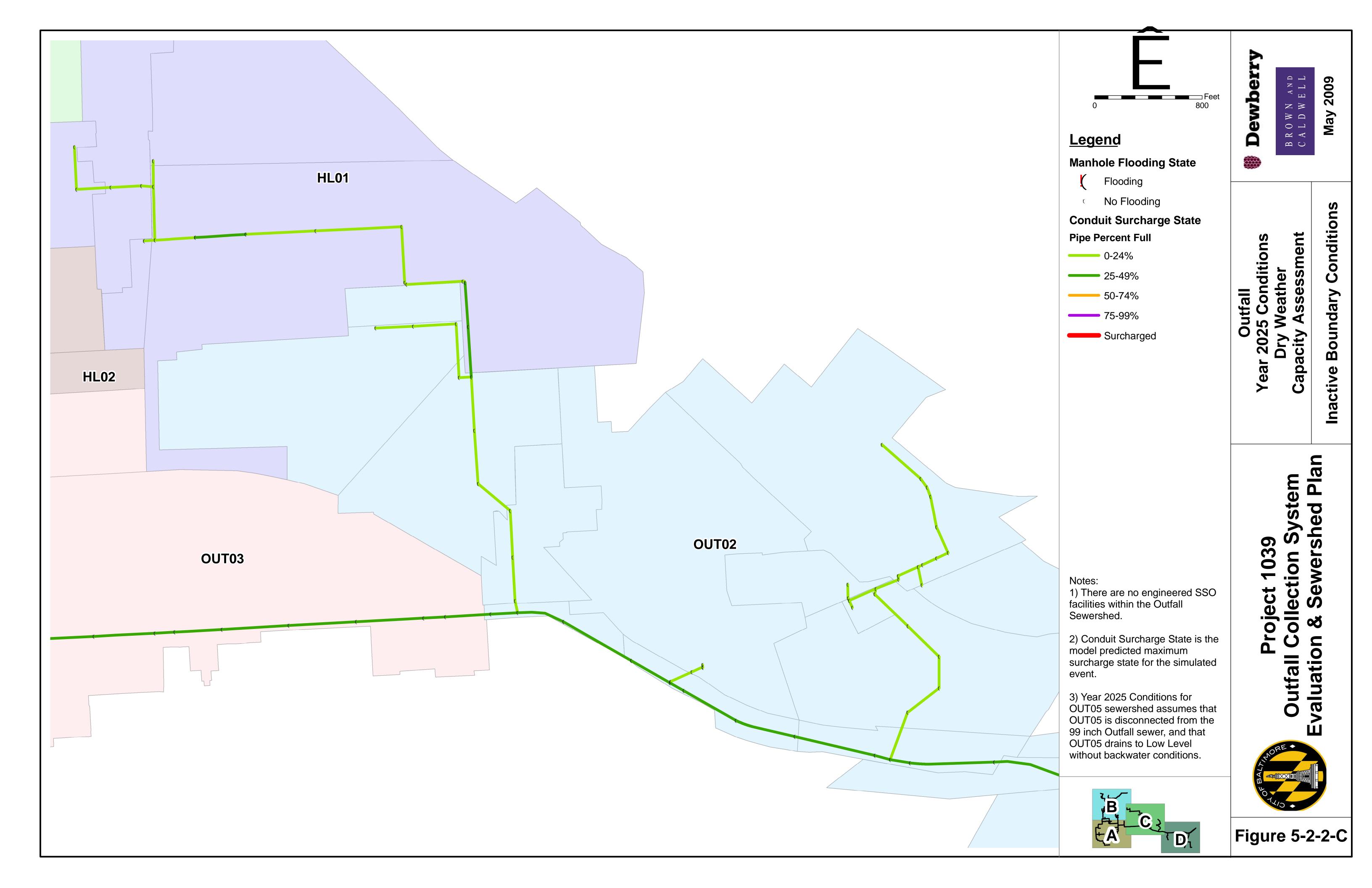
Project 1039 Outfall Collection System valuation & Sewershed Plan

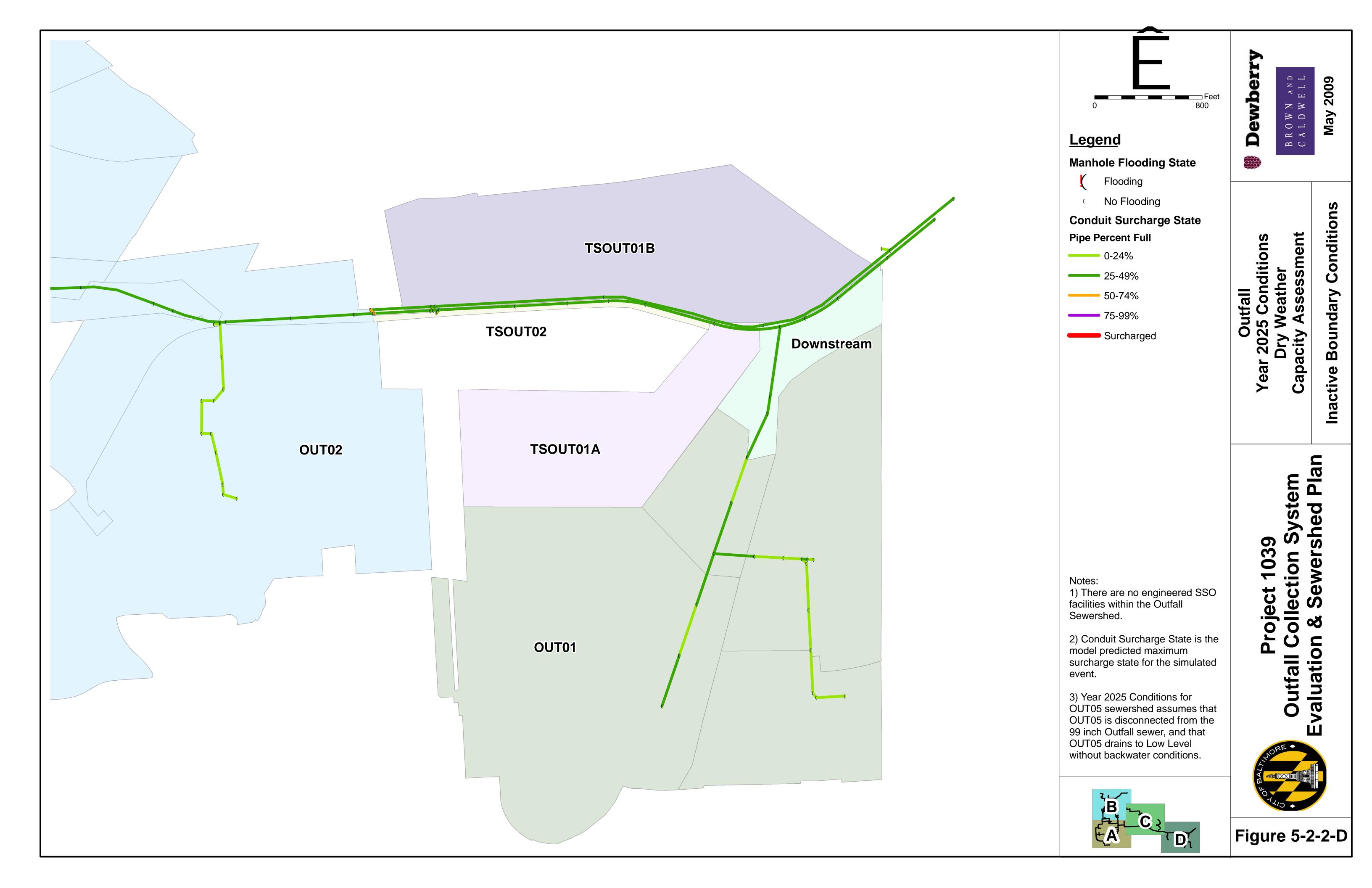


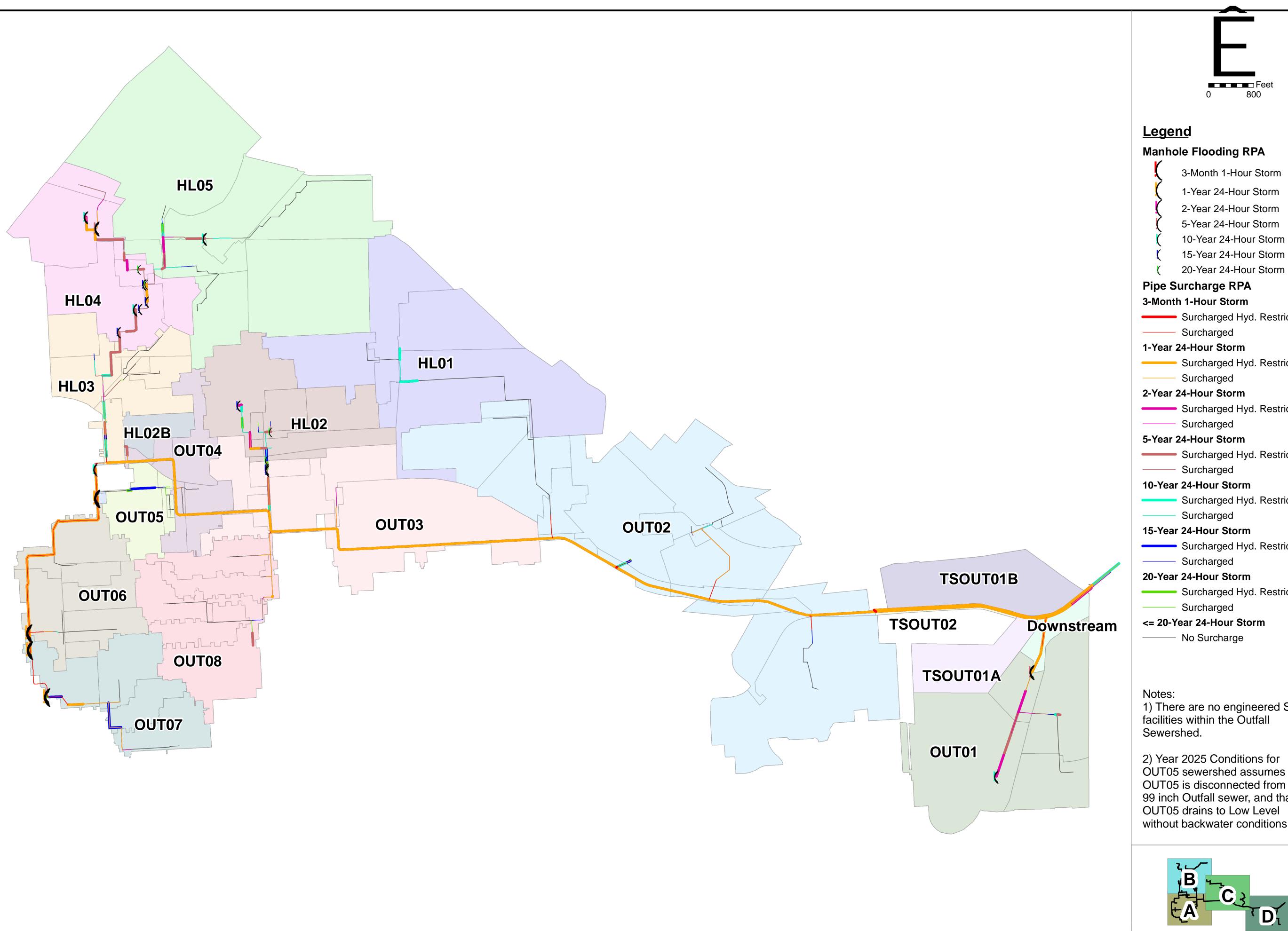
Figure 5-2-2

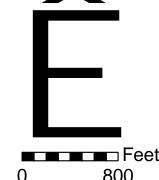












Manhole Flooding RPA

3-Month 1-Hour Storm

2-Year 24-Hour Storm 5-Year 24-Hour Storm

10-Year 24-Hour Storm

20-Year 24-Hour Storm

Pipe Surcharge RPA

3-Month 1-Hour Storm

Surcharged Hyd. Restriction

1-Year 24-Hour Storm

Surcharged Hyd. Restriction

Surcharged

Surcharged Hyd. Restriction

Surcharged

5-Year 24-Hour Storm

Surcharged Hyd. Restriction Surcharged

10-Year 24-Hour Storm

Surcharged Hyd. Restriction

Surcharged

15-Year 24-Hour Storm

Surcharged Hyd. Restriction

20-Year 24-Hour Storm

Surcharged Hyd. Restriction

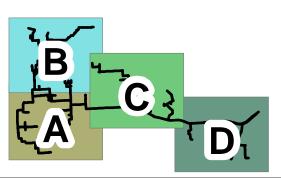
Surcharged

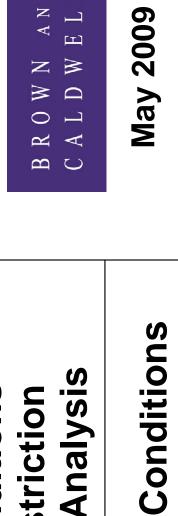
<= 20-Year 24-Hour Storm

No Surcharge

1) There are no engineered SSO facilities within the Outfall Sewershed.

2) Year 2025 Conditions for OUT05 sewershed assumes that OUT05 is disconnected from the 99 inch Outfall sewer, and that OUT05 drains to Low Level without backwater conditions.





Dewberry

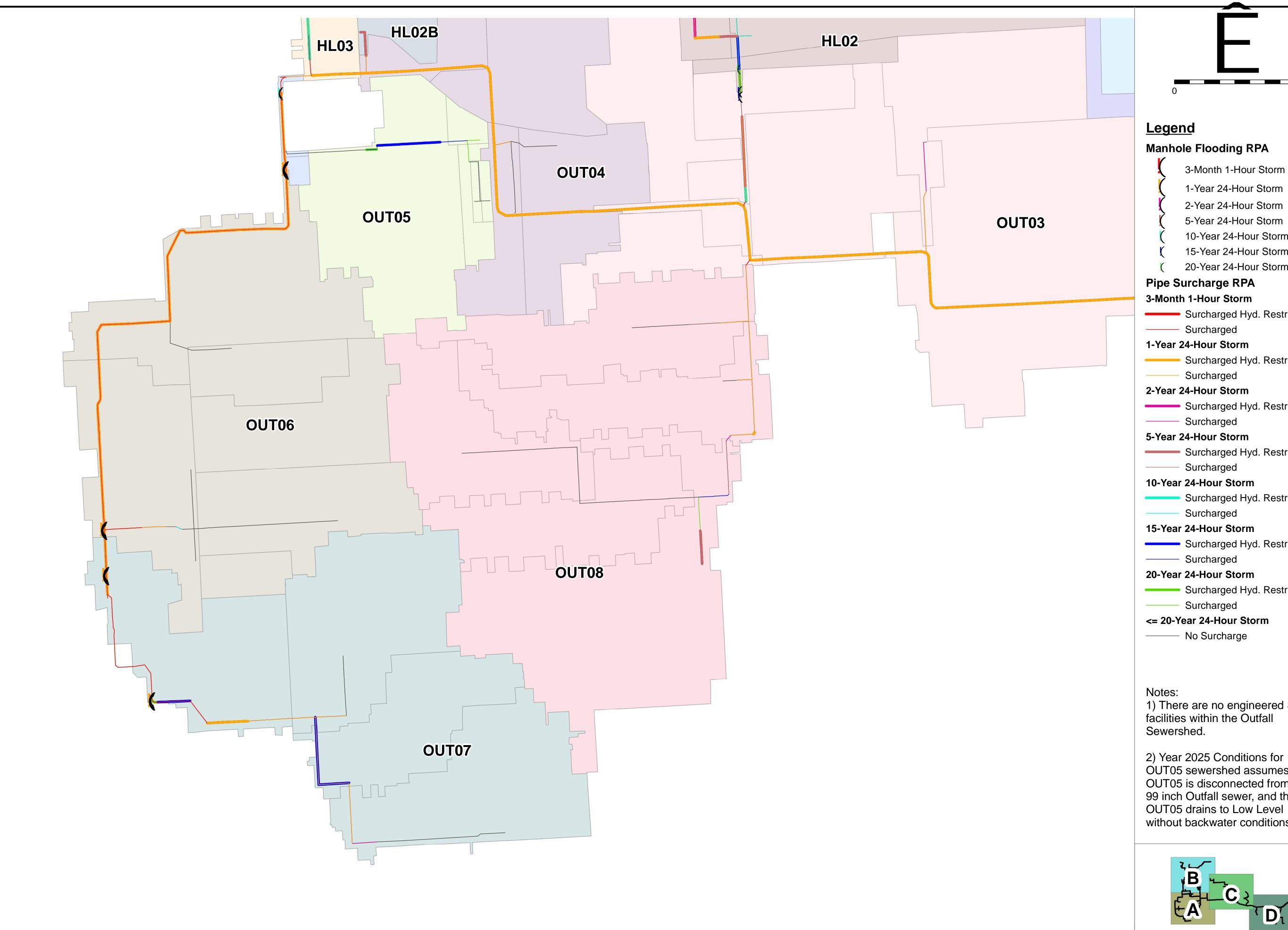
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Figure 5-3-1



Dewberry

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Conditions

Boundary

Manhole Flooding RPA

1-Year 24-Hour Storm 2-Year 24-Hour Storm

5-Year 24-Hour Storm 10-Year 24-Hour Storm

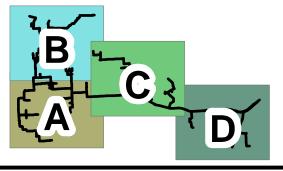
15-Year 24-Hour Storm

20-Year 24-Hour Storm

Surcharged Hyd. Restriction

1) There are no engineered SSO facilities within the Outfall

2) Year 2025 Conditions for OUT05 sewershed assumes that OUT05 is disconnected from the 99 inch Outfall sewer, and that OUT05 drains to Low Level without backwater conditions.



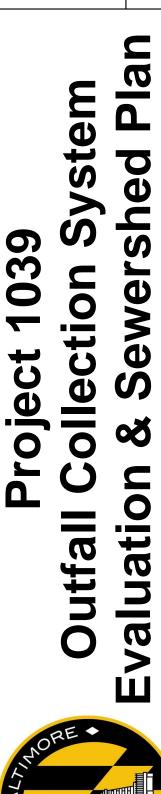
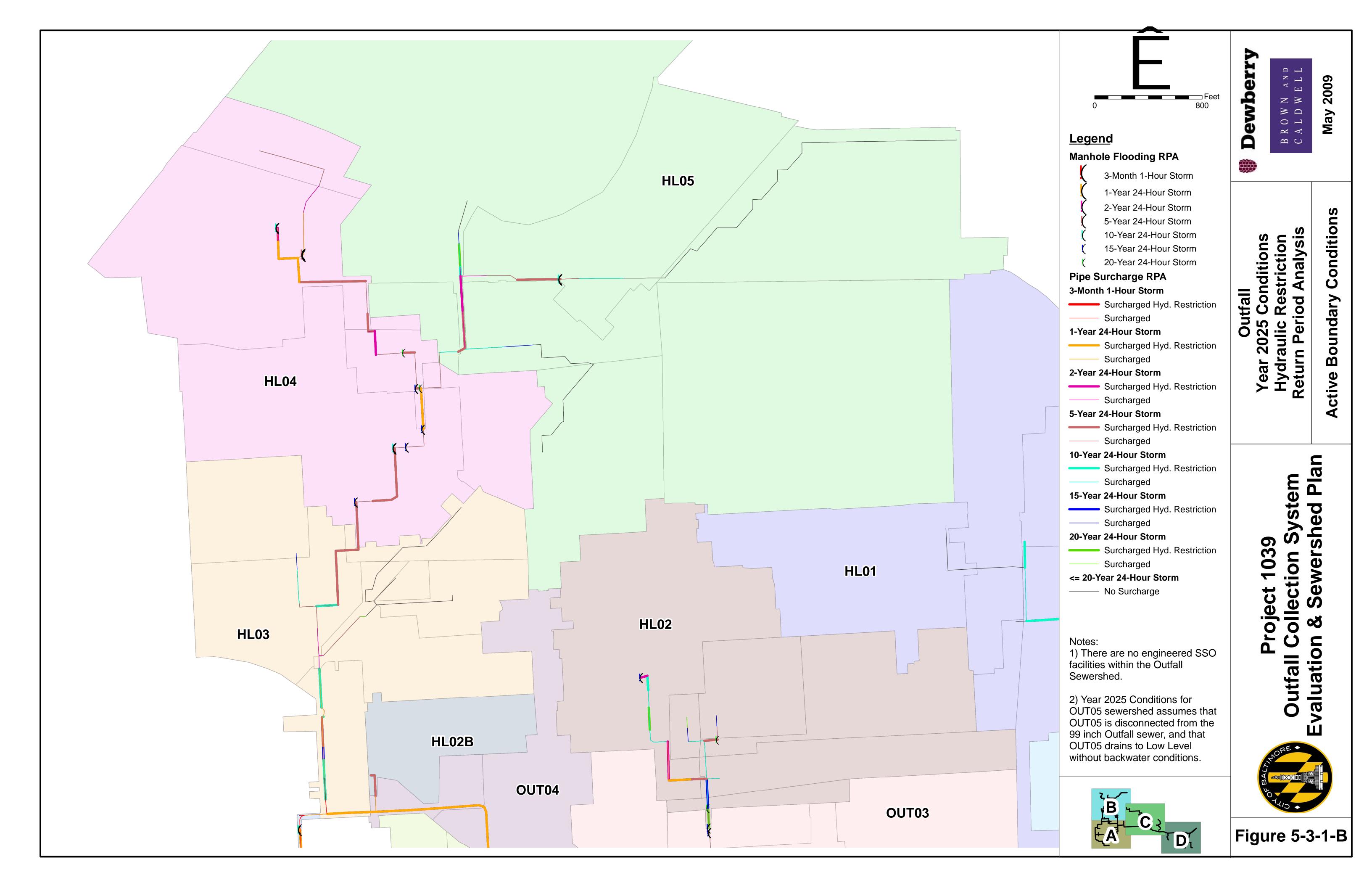
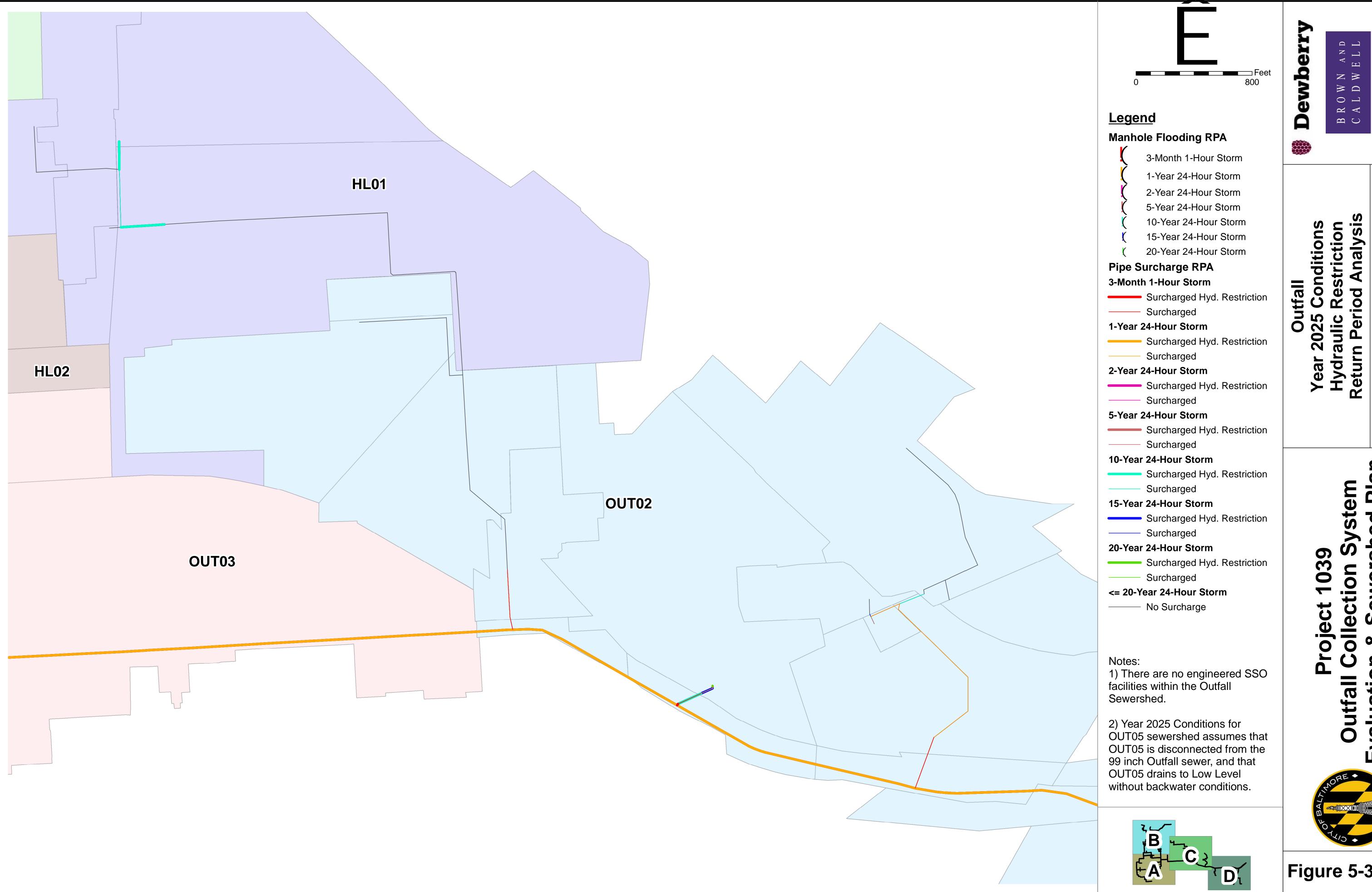


Figure 5-3-1-A





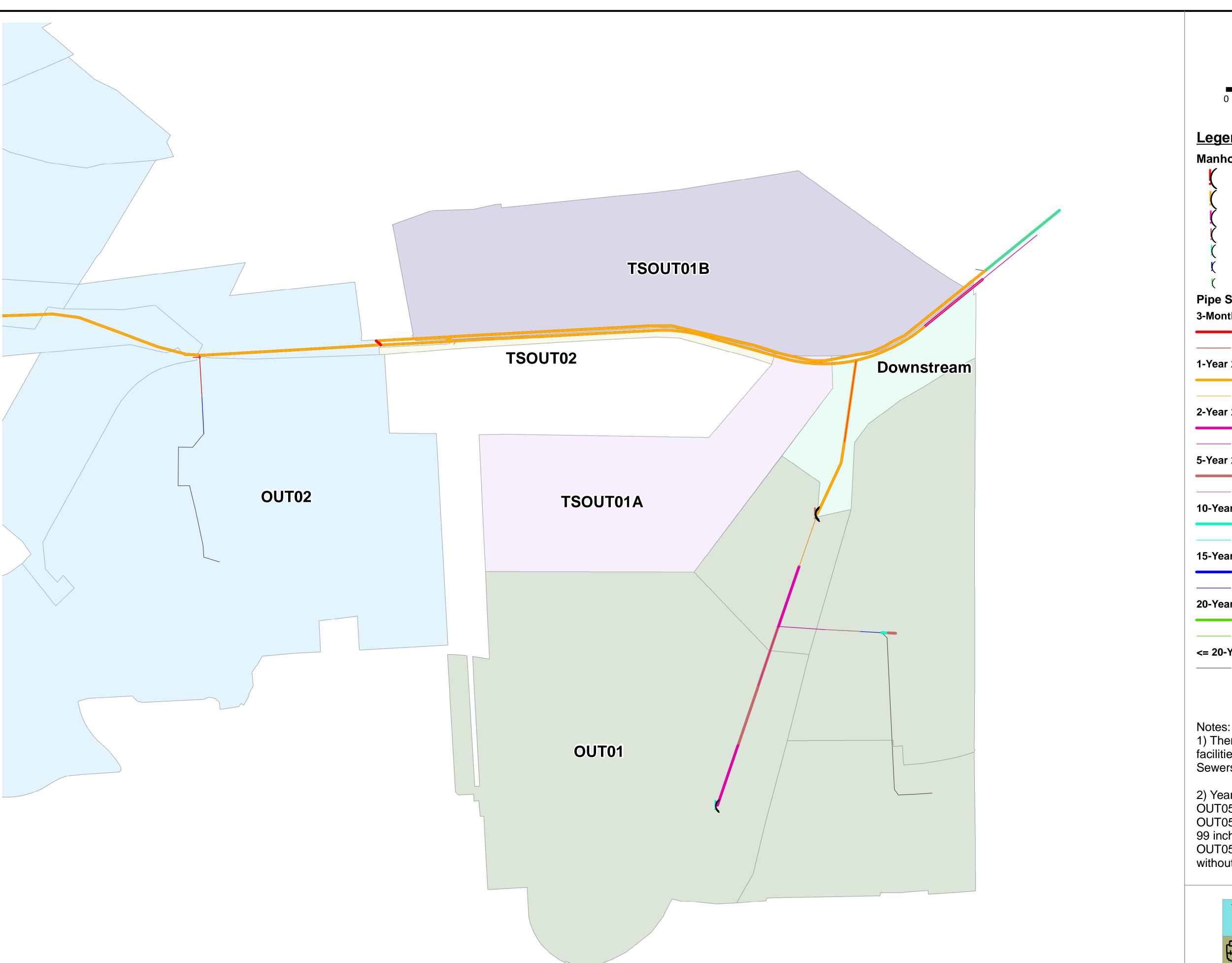
Conditions

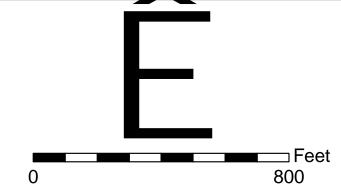
oundary

valuation



Figure 5-3-1-C





Dewberry

BROWN CALDW

<u>Legend</u>

Manhole Flooding RPA

3-Month 1-Hour Storm 1-Year 24-Hour Storm

2-Year 24-Hour Storm 5-Year 24-Hour Storm

10-Year 24-Hour Storm

15-Year 24-Hour Storm 20-Year 24-Hour Storm

Pipe Surcharge RPA

3-Month 1-Hour Storm

Surcharged Hyd. Restriction ——— Surcharged

1-Year 24-Hour Storm

Surcharged Hyd. Restriction Surcharged

2-Year 24-Hour Storm

Surcharged Hyd. Restriction

Surcharged

5-Year 24-Hour Storm

Surcharged Hyd. Restriction Surcharged

10-Year 24-Hour Storm

Surcharged Hyd. Restriction

Surcharged

15-Year 24-Hour Storm

Surcharged Hyd. Restriction

——— Surcharged

20-Year 24-Hour Storm

Surcharged Hyd. Restriction

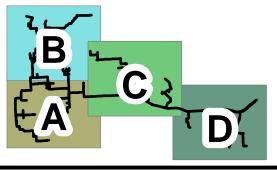
Surcharged

<= 20-Year 24-Hour Storm

No Surcharge

1) There are no engineered SSO facilities within the Outfall Sewershed.

2) Year 2025 Conditions for OUT05 sewershed assumes that OUT05 is disconnected from the 99 inch Outfall sewer, and that OUT05 drains to Low Level without backwater conditions.



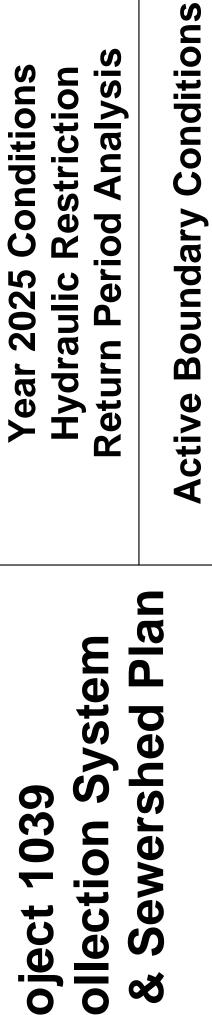
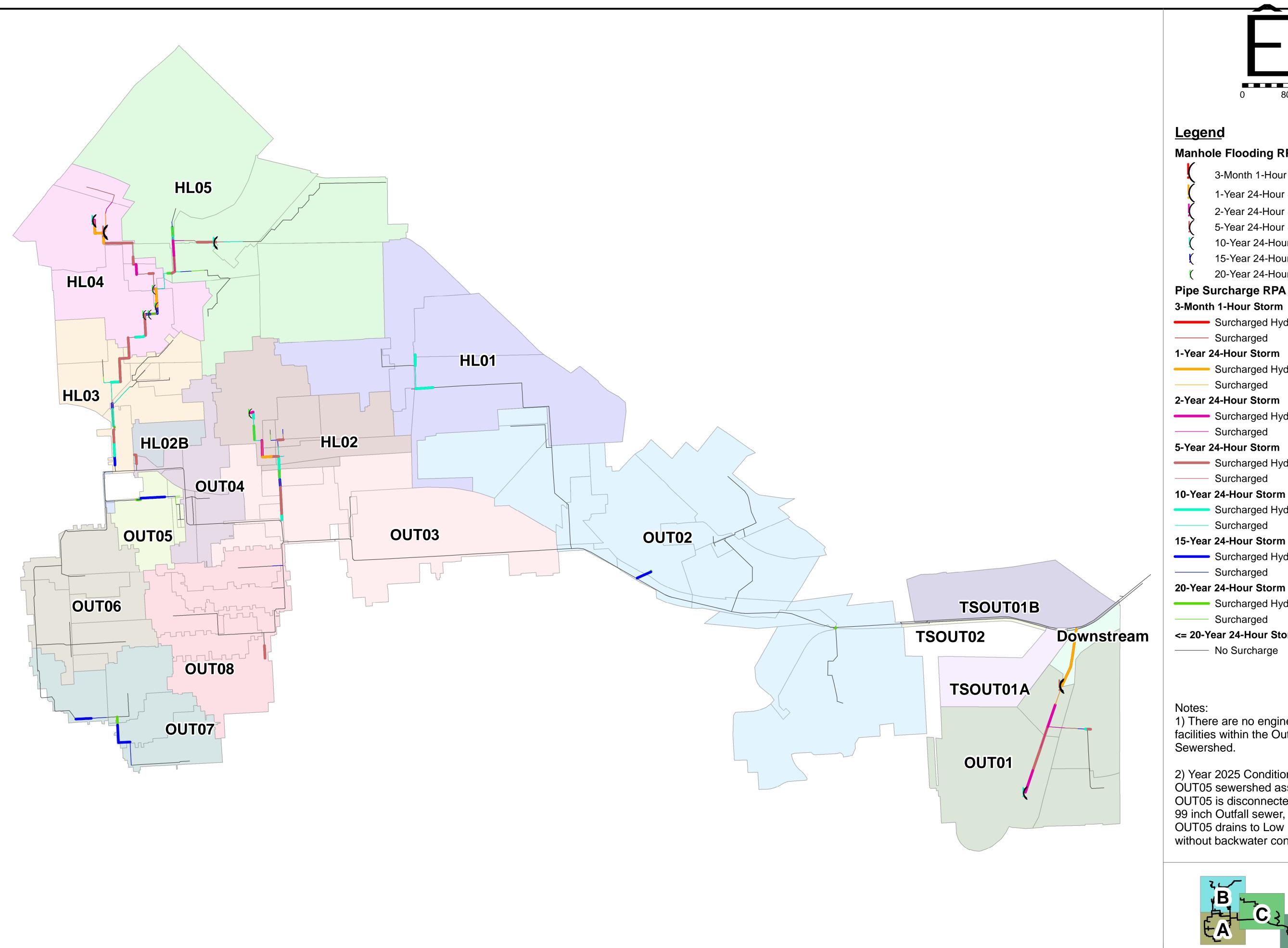
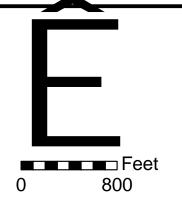


Figure 5-3-1-D





Manhole Flooding RPA

3-Month 1-Hour Storm

1-Year 24-Hour Storm

2-Year 24-Hour Storm 5-Year 24-Hour Storm

10-Year 24-Hour Storm

15-Year 24-Hour Storm

20-Year 24-Hour Storm

3-Month 1-Hour Storm

Surcharged Hyd. Restriction

1-Year 24-Hour Storm

Surcharged Hyd. Restriction

Surcharged

2-Year 24-Hour Storm

Surcharged Hyd. Restriction

Surcharged

5-Year 24-Hour Storm

Surcharged Hyd. Restriction Surcharged

10-Year 24-Hour Storm

Surcharged Hyd. Restriction

Surcharged

15-Year 24-Hour Storm

Surcharged Hyd. Restriction

20-Year 24-Hour Storm

Surcharged Hyd. Restriction

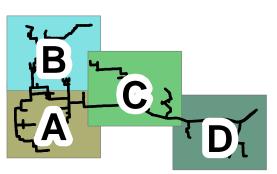
Surcharged

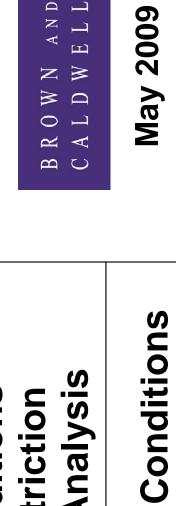
<= 20-Year 24-Hour Storm

No Surcharge

1) There are no engineered SSO facilities within the Outfall Sewershed.

2) Year 2025 Conditions for OUT05 sewershed assumes that OUT05 is disconnected from the 99 inch Outfall sewer, and that OUT05 drains to Low Level without backwater conditions.





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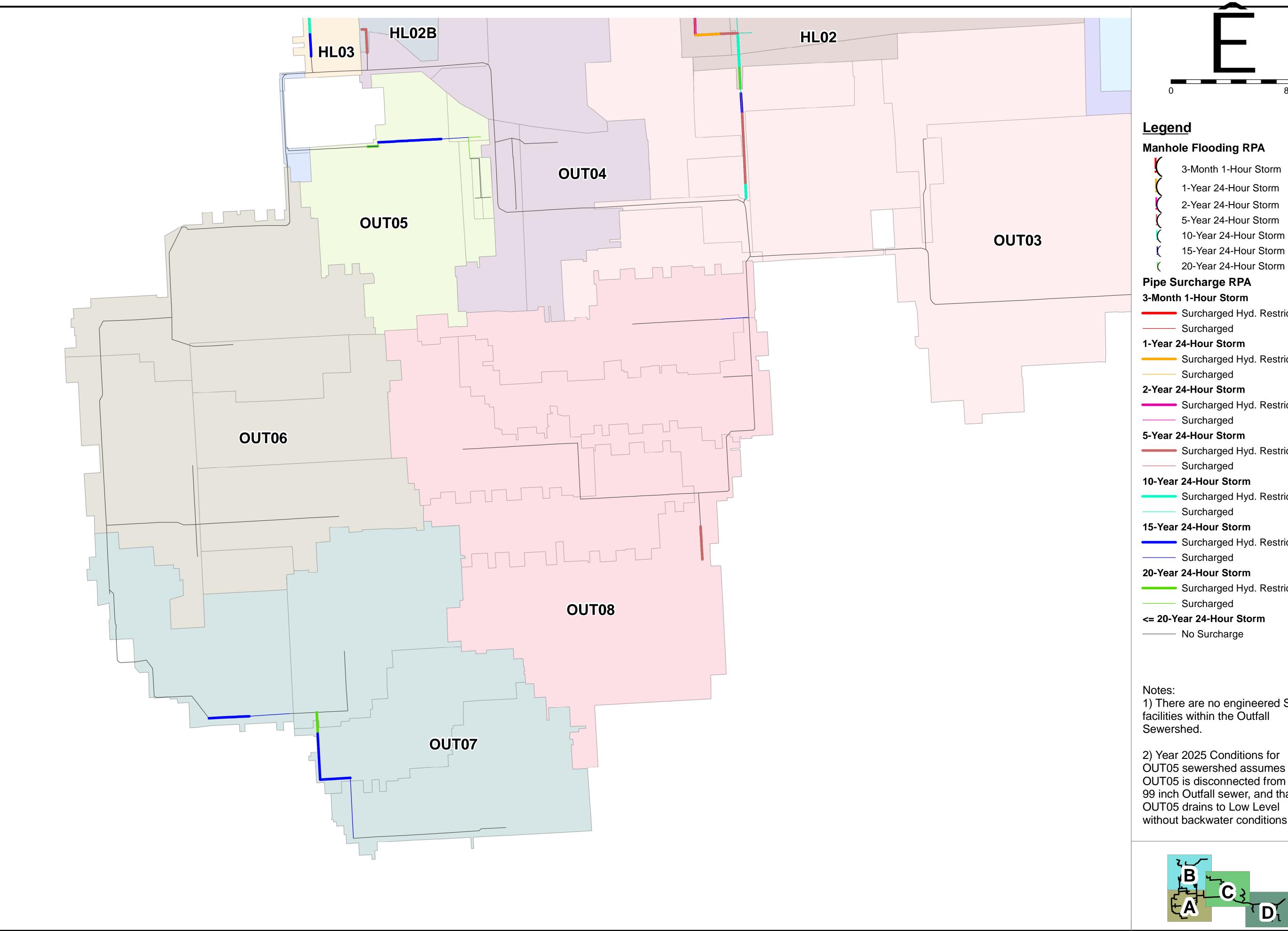
Boundary

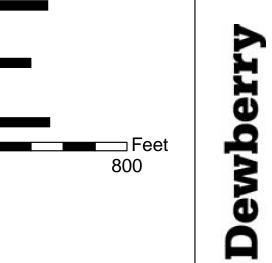
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Figure 5-3-2





Manhole Flooding RPA

1-Year 24-Hour Storm 2-Year 24-Hour Storm

10-Year 24-Hour Storm

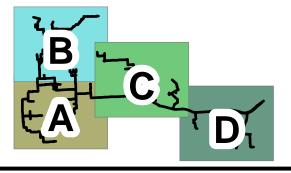
15-Year 24-Hour Storm

Pipe Surcharge RPA

Surcharged Hyd. Restriction

1) There are no engineered SSO facilities within the Outfall

2) Year 2025 Conditions for OUT05 sewershed assumes that OUT05 is disconnected from the 99 inch Outfall sewer, and that OUT05 drains to Low Level without backwater conditions.





2009

May

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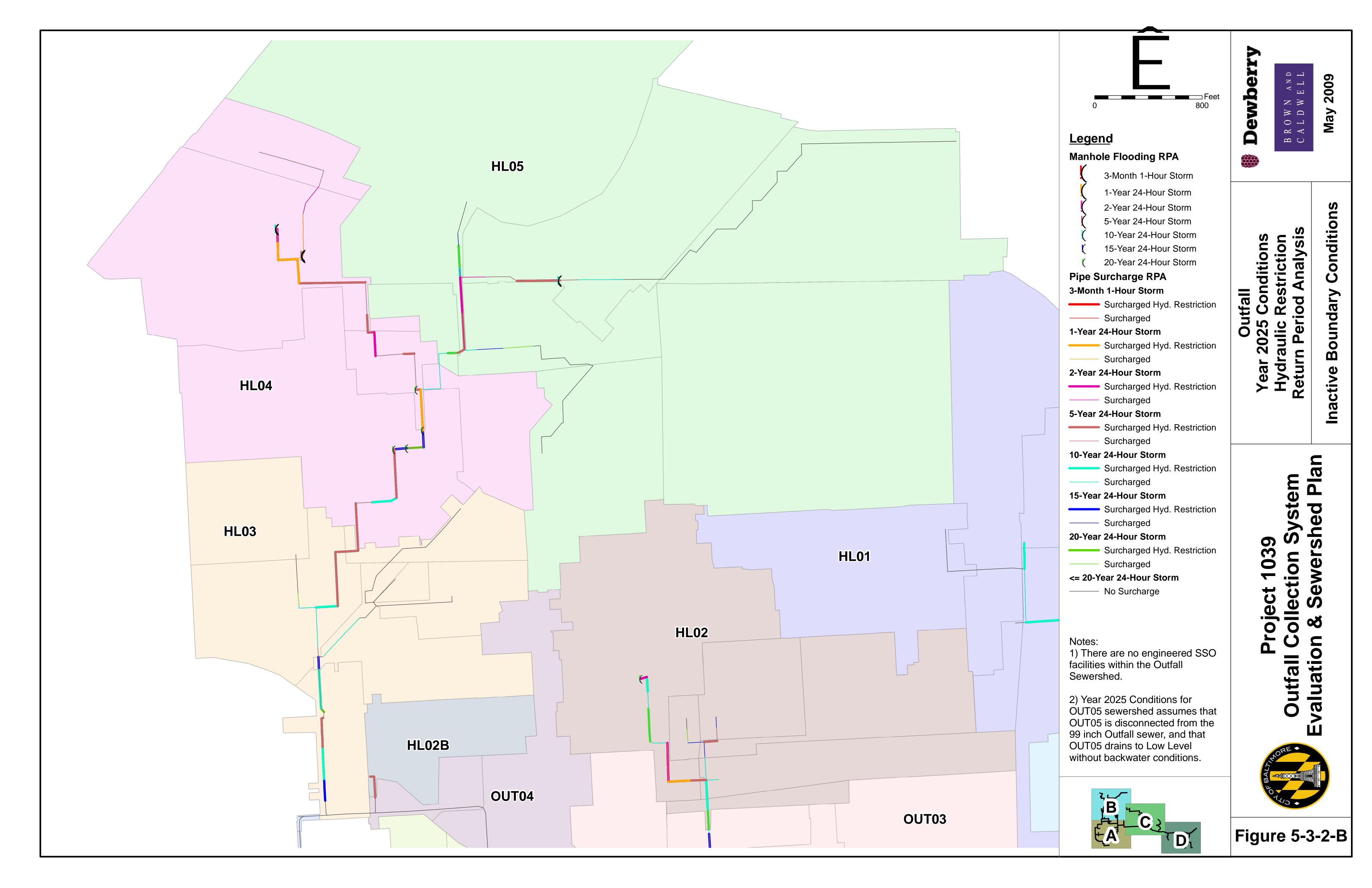
BROW CALD

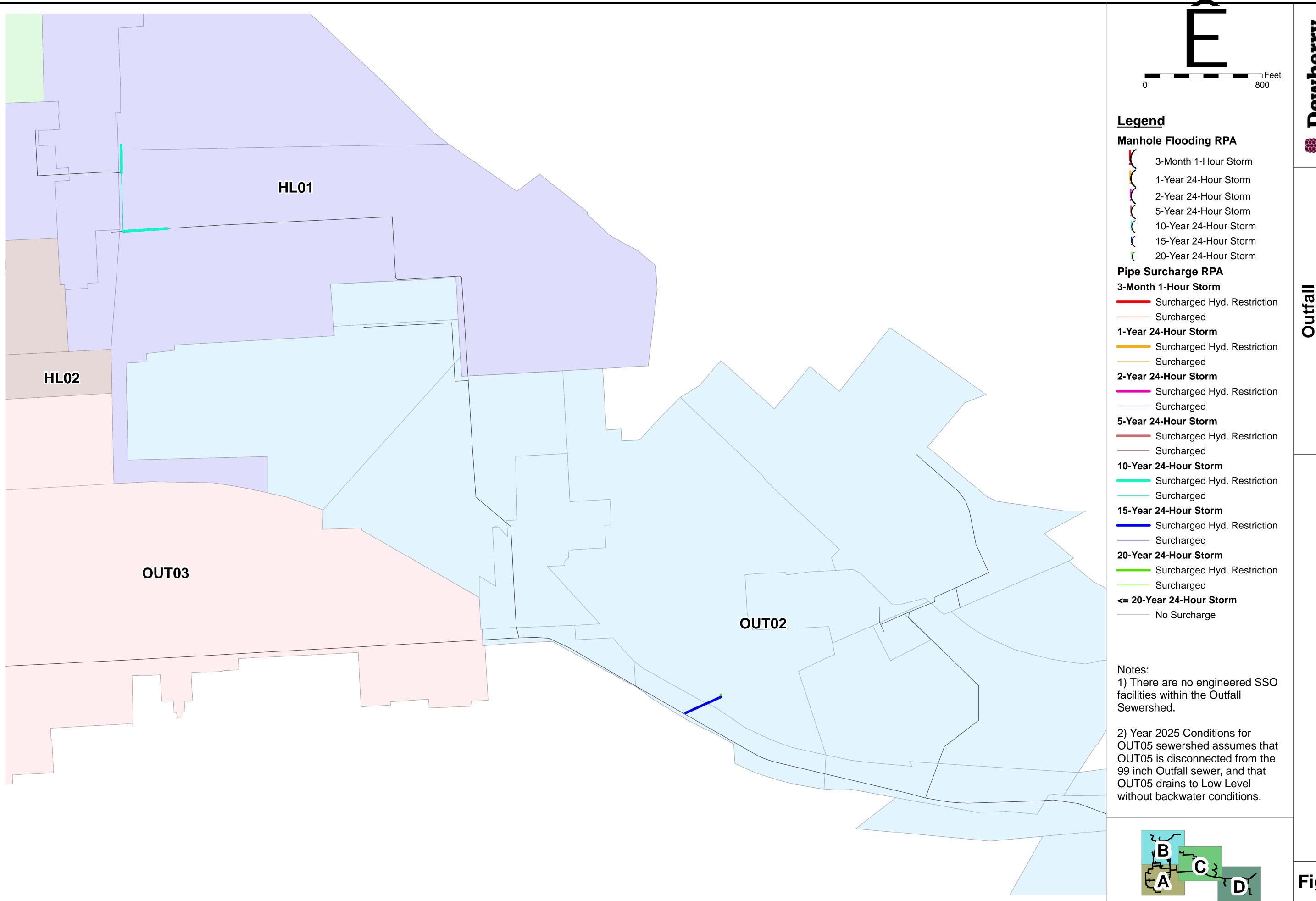
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Figure 5-3-2-A





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May

Conditions

Boundary

Inactive

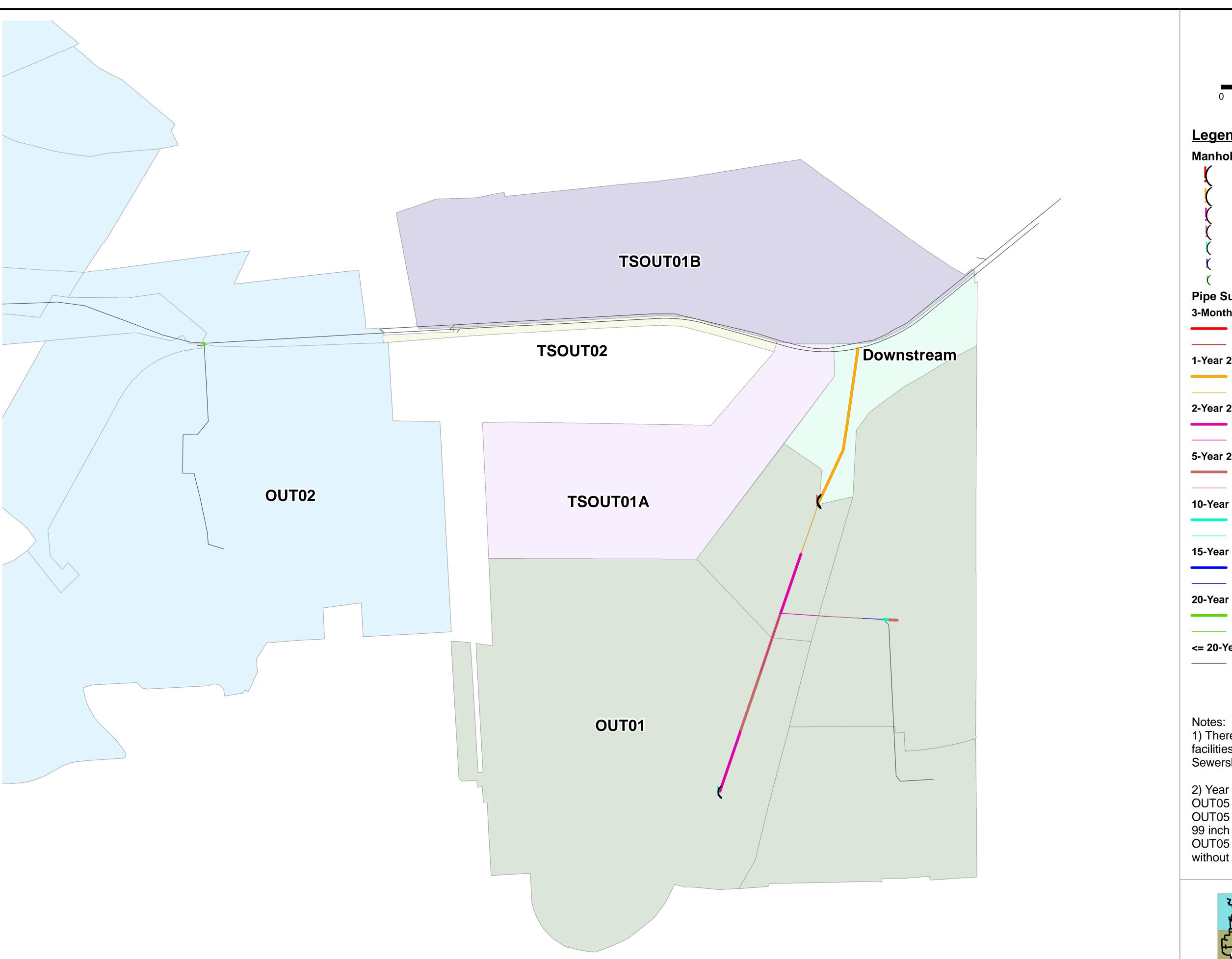


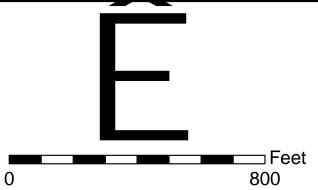
Conditions Restriction iod Analysis

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Figure 5-3-2-C





Dewberr

2009

Conditions

Inactive

BROW CALD

onditions estriction

<u>Legend</u>

Manhole Flooding RPA

3-Month 1-Hour Storm

1-Year 24-Hour Storm 2-Year 24-Hour Storm

5-Year 24-Hour Storm 10-Year 24-Hour Storm

15-Year 24-Hour Storm 20-Year 24-Hour Storm

Pipe Surcharge RPA

3-Month 1-Hour Storm

Surcharged Hyd. Restriction ——— Surcharged

1-Year 24-Hour Storm

Surcharged Hyd. Restriction Surcharged

2-Year 24-Hour Storm

Surcharged Hyd. Restriction

Surcharged

5-Year 24-Hour Storm

Surcharged Hyd. Restriction Surcharged

10-Year 24-Hour Storm

Surcharged Hyd. Restriction

Surcharged

15-Year 24-Hour Storm

Surcharged Hyd. Restriction

——— Surcharged

20-Year 24-Hour Storm

Surcharged Hyd. Restriction

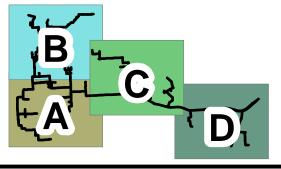
Surcharged

<= 20-Year 24-Hour Storm

No Surcharge

1) There are no engineered SSO facilities within the Outfall Sewershed.

2) Year 2025 Conditions for OUT05 sewershed assumes that OUT05 is disconnected from the 99 inch Outfall sewer, and that OUT05 drains to Low Level without backwater conditions.



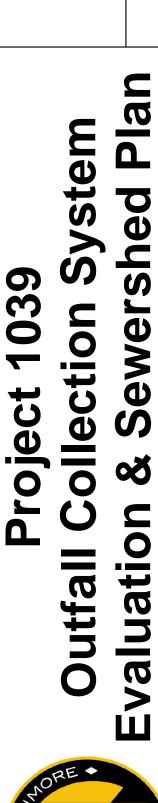


Figure 5-3-2-D